3x0 Siemens SGT-A65 Dual Fuel with SCR, Performance								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
BASE PLANT DESCRIPTION								
Number of Gas Turbines	3	3	3	3	3	3		
Representative Class Gas Turbine	Siemens SGT-A65 WLE							
Startup Time to Base Load, min	5	5	5	5	5	5		
Startup Time to MECL, min	4	4	4	4	4	4		
Cold Startup Time to SCR Compliance, min	45	45	45	45	45	45		
Equivalent Forced Outage Rate Demand, %	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%		
Assumed Land Use During Operation, Acres	15	15	15	15	15	15		
Fuel Design	Dual Fuel (Natural Gas and Fuel Oil)							
Inlet Conditioning	Evaporative Cooler							
Heat Rejection	Fin Fan Heat Exchanger							
NOx Control	Water Injection and SCR							
CO Control	CO Catalyst							
Particulate Control	Good Combustion Practice							
Interconnection Voltage, kV	345	345	345	345	345	138		
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature		
Permitting & Construction Schedule (Years from FNTP)	3	3	3	3	3	3		
ESTIMATED PERFORMANCE			1	1	1			
Net Plant Canacity, kW								
Net Plant Output - Summer Performance	166 300	166 300	165 900	165 900	166 400	166 100		
Net Plant Output - Winter Performance	188,200	188,200	188,200	188 200	188 200	188 200		
DMNC Summer	163.600	163,100	163,500	163.900	164.200	162.300		
DMNC Winter	188,200	188,200	188,200	188,200	188,200	188,200		
DMNC ICAP	158,600	158,600	158,700	158,700	158,700	158,700		
Net Plant Heat Rate (HHV Basis), Btu/kWh								
Net Plant Heat Rate - Summer	9,690	9,700	9,700	9,700	9,690	9,690		
Net Plant Heat Rate - Winter	9,430	9,430	9,430	9,440	9,450	9,440		
Net Plant Heat Rate - DMNC Summer	9,720	9,720	9,710	9,710	9,710	9,710		
Net Plant Heat Rate - DMNC Winter	9,380	9,380	9,380	9,390	9,400	9,390		
Net Plant Heat Rate - DMNC ICAP	9,730	9,730	9,730	9,730	9,720	9,720		
Estimated Startup Fuel Usage, MMBtu								
Start to Base Load	100	100	100	100	100	100		

3x0 Siemens SGT-A65 Dual Fuel with SCR, Emissions							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS							
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV)	167	167	167	167	167	167	
SO ₂ CO CO ₂	3.5 302 208,800	3.5 302 208,800	3.5 302 208,800	3.5 302 208,800	3.5 302 208,800	3.5 302 208,800	
All GTs with SCR and CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	13 3.5 7 208,800	13 3.5 7 208,800	13 3.5 7 208,800	13 3.5 7 208,800	13 3.5 7 208,800	13 3.5 7 208,800	
ESTIMATED BASE LOAD OPERATING EMISSIONS: ULTRA-LOW S	ULFUR FUEL OIL						
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	278 2.6 81 278,400	278 2.6 81 278,400	278 2.6 81 278,400	278 2.6 81 278,400	278 2.6 81 278,400	278 2.6 81 278,400	
All GTs with SCR and CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	42 2.6 12 278,400	42 2.6 12 278,400	42 2.6 12 278,400	42 2.6 12 278,400	42 2.6 12 278,400	42 2.6 12 278,400	

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.
 [4] Degraded performance assumed for all scenarios. For Siemens A65, 2.5% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

3x0 Siemens SGT-A65 Dual Fuel with SCR, Capital Costs							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
ESTIMATED CAPITAL AND O&M COSTS							
EPC Project Capital Costs. 2020\$ (w/o Owner's Costs)							
Labor	\$45,850,000	\$46.330.000	\$47,120,000	\$48.820.000	\$52,990,000	\$52,380,000	
Materials	\$59.300.000	\$59.920.000	\$60.940.000	\$63.140.000	\$68.530.000	\$67.730.000	
Turbines or Batteries	\$68.860.000	\$69.580.000	\$70,760,000	\$73.320.000	\$79.570.000	\$78.650.000	
Other	\$50.610.000	\$51.140.000	\$52.010.000	\$53.880.000	\$58.480.000	\$57.810.000	
EPC Project Capital Cost Subtotal, 2020\$	\$224,620,000	\$226,970,000	\$230,830,000	\$239,160,000	\$259,570,000	\$256,570,000	
Owner's Cost Allowances. 2020\$							
Owner's Project Development	\$370.000	\$370.000	\$370.000	\$370.000	\$480.000	\$410.000	
Owner's Operational Personnel Prior to COD	\$440.000	\$440.000	\$440.000	\$440.000	\$570.000	\$480.000	
Owner's Engineer	\$1.020.000	\$1.020.000	\$1.020.000	\$1.020.000	\$1.330.000	\$1.120.000	
Owner's Project Management	\$1,130,000	\$1.130.000	\$1.130.000	\$1,130,000	\$1.470.000	\$1.240.000	
Owner's Legal Costs	\$1,000,000	\$1.000.000	\$1.000.000	\$1.000.000	\$1.300.000	\$1,100,000	
Owner's Start-up Engineering and Commissioning	\$270,000	\$270,000	\$270,000	\$270,000	\$350,000	\$300,000	
Sales Tax	\$0	\$0	\$0	\$0	\$0	\$0	
Construction Power and Water	\$510,000	\$510,000	\$510,000	\$510,000	\$660,000	\$560,000	
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,300,000	\$1,100,000	
Switchyard	\$17,080,000	\$17,080,000	\$17,080,000	\$17,080,000	\$53,070,000	\$9,320,000	
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$6,500,000	
Gas Interconnection and Reinforcement	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000	
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0	\$0	\$0	
Emission Reduction Credits	\$400,000	\$400,000	\$400,000	\$2,500,000	\$2,500,000	\$2,500,000	
Political Concessions & Area Development	\$500,000	\$500,000	\$500,000	\$500,000	\$650,000	\$550,000	
Startup/Testing (Fuel & Consumables)	\$2,640,000	\$2,640,000	\$2,640,000	\$2,640,000	\$2,640,000	\$2,640,000	
Initial Fuel Inventory	\$4,180,000	\$4,180,000	\$4,180,000	\$4,180,000	\$4,180,000	\$4,180,000	
Site Security	\$580,000	\$580,000	\$580,000	\$580,000	\$750,000	\$640,000	
Operating Spare Parts	\$3,110,000	\$3,110,000	\$3,110,000	\$3,110,000	\$3,110,000	\$3,110,000	
Builders Risk Insurance (0.45% of Construction Costs)	\$1,010,000	\$1,020,000	\$1,040,000	\$1,080,000	\$1,170,000	\$1,150,000	
Owner's Contingency (5% for Screening Purposes)	\$14,260,000	\$14,380,000	\$14,570,000	\$15,090,000	\$18,020,000	\$15,390,000	
Owner's Cost Allowance Subtotal, 2020\$	\$74,800,000	\$74,930,000	\$75,140,000	\$77,800,000	\$118,850,000	\$66,590,000	
AFUDC, 2020\$							
EPC Portion	\$15,723,400	\$15,887,900	\$16,158,100	\$16,741,200	\$18,169,900	\$17,959,900	
Non-EPC Portion	\$5,208,000	\$5,217,100	\$5,231,800	\$5,271,000	\$8,144,500	\$4,486,300	
AFUDC Subtotal, 2020\$	\$20,931,400	\$21,105,000	\$21,389,900	\$22,012,200	\$26,314,400	\$22,446,200	
Total Project Costs, 2020\$	\$320,351,400	\$323,005,000	\$327,359,900	\$338,972,200	\$404,734,400	\$345,606,200	
Notes:							

[1] Capital cost assumes EPC full wrap methodology. EPC electrical scope ends at the high side of the GSU. Assumes gas, water, sewer, communications are available at plant fenceline. [2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

3x0 Siemens SGT-A65 Dual Fuel with SCR, O&M Costs							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
FIXED O&M COSTS, 2020\$/Yr							
Fixed O&M Cost - Labor	\$900,000	\$1,000,000	\$1,300,000	\$1,300,000	\$1,700,000	\$1,500,000	
Fixed O&M Cost - Other	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	
Site Leasing Allowance	\$330,000	\$330,000	\$330,000	\$330,000	\$4,050,000	\$390,000	
Total Fixed O&M Cost 2020\$/Yr	\$2,330,000	\$2,430,000	\$2,730,000	\$2,730,000	\$6,850,000	\$2,990,000	
Total Fixed O&M Cost 2020\$/kW - Yr	\$14.69	\$15.32	\$17.20	\$17.20	\$43.16	\$18.84	
LEVELIZED MAJOR MAINTENANCE COSTS							
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$190	\$190	\$190	\$190	\$190	\$190	
Major Maintenance Cost, 2020\$/GT-start	N/A	N/A	N/A	N/A	N/A	N/A	
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINT	ENANCE) - GAS OPERATIO)N, 2020\$/MWh					
Water Related O&M	\$8.35	\$8.22	\$8.12	\$8.12	\$8.44	\$7.99	
SCR Related Costs	\$0.82	\$0.83	\$0.83	\$0.83	\$0.83	\$0.83	
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	
Total Variable O&M - Gas Operation, 2020\$/MWh	\$10.07	\$9.95	\$9.85	\$9.85	\$10.17	\$9.72	
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINT	ENANCE) - FUEL OIL OPER	 RATION, 2020\$/MWh					
Water Related O&M	\$8.20	\$8.10	\$8.00	\$8.00	\$8.28	\$7.86	
SCR Related Costs	\$1.00	\$1.00	\$1.00	\$1.00	\$1.03	\$1.03	
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	
Total Variable O&M - Fuel Oil Operation, 2020\$/MWh	\$10.20	\$10.00	\$9.90	\$9.90	\$10.21	\$9.79	
Notes:							
[1] Fixed O&M costs are presented in 2020 USD \$.							
[2] FOM costs assume 7 full time personnel. FOM costs do not inclu	de engine lease fees that mag	y be available with LTSA, o	lepending on OEM.				
[3] Major maintenance \$/hr holds for all aero gas turbines. Major ma	intenance \$/hr holds for frame	e gas turbines where hours	s per start is >27.				
[4] VOM assumes the use of temporarily trailers for demineralized w	ater treatment.						

3x0 Siemens SGT-A65 Gas Only with SCR, Performance							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
BASE PLANT DESCRIPTION							
Number of Gas Turbines Representative Class Gas Turbine Stortup Time to Base Load, min	3 Siemens SGT-A65 WLE	3 Siemens SGT-A65 WLE	3 Siemens SGT-A65 WLE	3 Siemens SGT-A65 WLE			
Startup Time to Base Load, min Startup Time to MECL, min Cold Startup Time to SCR Compliance, min	4 45	4 45	4 45	4 45			
Assumed Land Use During Operation Acres	10.0%	10.0%	10.0%	10.0%			
Fuel Design	Natural Gas Only	Natural Gas Only	Natural Gas Only	Natural Gas Only			
Inlet Conditioning	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler			
Heat Rejection	Fin Fan Heat Exchanger						
NOx Control	Water Injection and SCR						
CO Control	CO Catalyst	CO Catalyst	CO Catalyst	CO Catalyst			
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice			
Interconnection Voltage, kV Technology Rating	345 Mature	345 Mature	345 Mature	345 Mature			
Permitting & Construction Schedule (Years from FNTP)	3	3	3	3			
ESTIMATED PERFORMANCE							
Net Plant Capacity, kW Net Plant Output - Summer Performance Net Plant Output - Winter Performance DMNC Summer DMNC Winter DMNC ICAP	166,300 188,200 163,600 188,200 158,600	166,300 188,200 163,100 188,200 158,600	165,900 188,200 163,500 188,200 158,700	165,900 188,200 163,900 188,200 158,700			
Net Plant Heat Rate (HHV Basis), Btu/kWh Net Plant Heat Rate - Summer Net Plant Heat Rate - Winter Net Plant Heat Rate - DMNC Summer Net Plant Heat Rate - DMNC Winter Net Plant Heat Rate - DMNC ICAP	9,690 9,430 9,720 9,380 9,730	9,700 9,430 9,720 9,380 9,730	9,700 9,430 9,710 9,380 9,730	9,700 9,440 9,710 9,390 9,730			
Estimated Startup Fuel Usage, MMBtu Start to Base Load	100	100	100	100			

3x0 Siemens SGT-A65 Gas Only with SCR, Emissions								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL G	AS							
All GTs Operating, NO SCR / CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	167 3.5 302 208,800	167 3.5 302 208,800	167 3.5 302 208,800	167 3.5 302 208,800				
All GTs with SCR and CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	13 3.5 7 208,800	13 3.5 7 208,800	13 3.5 7 208,800	13 3.5 7 208,800				

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.

[4] Degraded performance assumed for all scenarios. For Siemens A65, 2.5% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US

3XU Siemens SGT-A65 Gas Only with SCR, Capital Costs							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
ESTIMATED CAPITAL AND O&M COSTS							
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)							
Labor	\$43,550,000	\$44,030,000	\$44,810,000	\$46,510,000			
Materials	\$56,320,000	\$56,940,000	\$57,960,000	\$60,150,000			
Turbines or Batteries	\$65,390,000	\$66,110,000	\$67,300,000	\$69,850,000			
Other	\$48,060,000	\$48,590,000	\$49,460,000	\$51,350,000			
EPC Project Capital Cost Subtotal, 2020\$	\$213,320,000	\$215,670,000	\$219,530,000	\$227,860,000			
Owner's Cost Allowances. 2020\$							
Owner's Project Development	\$370,000	\$370,000	\$370.000	\$370.000			
Owner's Operational Personnel Prior to COD	\$440,000	\$440,000	\$440.000	\$440,000			
Owner's Engineer	\$1.020.000	\$1.020.000	\$1.020.000	\$1.020.000			
Owner's Project Management	\$1.130.000	\$1.130.000	\$1.130.000	\$1.130.000			
Owner's Legal Costs	\$1.000.000	\$1.000.000	\$1.000.000	\$1.000.000			
Owner's Start-up Engineering and Commissioning	\$270.000	\$270.000	\$270.000	\$270.000			
Sales Tax	\$0	\$0	\$0	\$0			
Construction Power and Water	\$510,000	\$510,000	\$510,000	\$510,000			
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000			
Switchyard	\$17,080,000	\$17,080,000	\$17,080,000	\$17,080,000			
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000			
Gas Interconnection and Reinforcement	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000			
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0			
Emission Reduction Credits	\$400,000	\$400,000	\$400,000	\$2,500,000			
Political Concessions & Area Development Fees	\$500,000	\$500,000	\$500,000	\$500,000			
Startup/Testing (Fuel & Consumables)	\$2,640,000	\$2,640,000	\$2,640,000	\$2,640,000			
Initial Fuel Inventory	\$0	\$O	\$0	\$0			
Site Security	\$580,000	\$580,000	\$580,000	\$580,000			
Operating Spare Parts	\$3,110,000	\$3,110,000	\$3,110,000	\$3,110,000			
Builders Risk Insurance (0.45% of Construction Costs)	\$959,940	\$970,515	\$987,885	\$1,025,370			
Owner's Contingency (5% for Screening Purposes)	\$13,695,000	\$13,815,000	\$14,005,000	\$14,525,000			
Owner's Cost Allowance Subtotal, 2020\$	\$70,004,940	\$70,135,515	\$70,342,885	\$73,000,370			
AFUDC. 2020\$							
EPC Portion	\$15.723.400	\$15.887.900	\$16,158,100	\$16.741.200			
Non-EPC Portion	\$5.208.000	\$5.217.100	\$5.231.800	\$5.271.000			
AFUDC Subtotal, 2020\$	\$20,931,400	\$21,105,000	\$21,389,900	\$22,012,200			
Rounding Adjustment to Match Demand Curve Model	-\$4.940	-\$5.515	-\$2.885	-\$370			
Total Project Costs. 2020\$	\$304.251.400	\$306,905.000	\$311,259.900	\$322,872.200			
Notes:							
[1] Capital cost assumes EPC full wrap methodology. EPC electric	cal scope ends at the high side	e of the GSU. Assumes ga	s, water, sewer, communica	ations are available at plant	fenceline.		

[2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

	3x0 Sieme	ens SGT-A65 Gas Only w	vith SCR, O&M Costs			
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
FIXED Dawi COSTS, 20205/11	000.000	¢1 000 000	¢1 200 000	¢1 200 000		
Fixed Oald Cost - Labor	900,000	\$1,000,000	\$1,300,000	\$1,300,000		
Fixed O&M Cost - Other	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000		
Site Leasing Allowance	\$330,000	\$330,000	\$330,000	\$330,000		
Total Fixed O&M Cost 2020\$/Yr	\$2,330,000	\$2,430,000	\$2,730,000	\$2,730,000		
Total Fixed O&M Cost 2020\$/kW - Yr	\$14.69	\$15.32	\$17.20	\$17.20		
LEVELIZED MAJOR MAINTENANCE COSTS						
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$190	\$190	\$190	\$190		
Major Maintenance Cost, 2020\$/GT-start	N/A	N/A	N/A	N/A		
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MA	NINTENANCE) - GAS OPERAT	 ON, 2020\$/MWh				
Water Related O&M	\$8.35	\$8.22	\$8.12	\$8.12		
SCR Related Costs	\$0.82	\$0.83	\$0.83	\$0.83		
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90		
Total Variable O&M - Gas Operation, 2020\$/MWh	\$10.07	\$9.95	\$9.85	\$9.85		
Notes:						
[1] Fixed O&M costs are presented in 2020 USD \$.						
[2] FOM costs assume 7 full time personnel. FOM costs do not in	nclude engine lease fees that m	ay be available with LTSA	, depending on OEM.			
[3] Major maintenance \$/hr holds for all aero gas turbines. Major	maintenance \$/hr holds for frar	ne gas turbines where hou	urs per start is >27.			

[4] VOM assumes the use of temporarily trailers for demineralized water treatment.

1x0 GE 7F.05 Dual Fuel with SCR, Performance								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
BASE PLANT DESCRIPTION								
Number of Gas Turbines	1	1	1	1	1	1		
Representative Class Gas Turbine	GE 7F.05							
Startup Time to Base Load, min	10 fast / 30 conventional							
Startup Time to MECL, min	8 fast / 24 conventional							
Cold Startup Time to SCR Compliance, min	45	45	45	45	45	45		
Equivalent Forced Outage Rate Demand, %	4.3%	4.3%	4.3%	4.3%	4.3%	4.3%		
Assumed Land Use During Operation, Acres	15	15	15	15	15	15		
Fuel Design	Dual Fuel (Natural Gas and Fuel Oil)							
Inlet Conditioning	Evaporative Cooler							
Heat Rejection	Fin Fan Heat Exchanger							
NOx Control	DLN (Gas), Water							
CO Control	CO Catalyst							
Particulate Control	Good Combustion Practice							
Interconnection Voltage, kV	345	345	345	345	345	138		
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature		
Permitting & Construction Schedule (Years from FNTP)	3	3	3	3	3	3		
ESTIMATED PERFORMANCE		1		1	1	1		
Net Plant Capacity, kW								
Net Plant Output - Summer Performance	214,300	215,200	215.500	215,400	216.900	216,700		
Net Plant Output - Winter Performance	225.400	226.500	226.900	226.800	227.300	227.700		
DMNC Summer	211,300	211,900	213,100	211,900	214,700	213,000		
DMNC Winter	225,900	227,100	228,000	228,000	229,200	229,200		
DMNC ICAP	207,100	208,200	209,100	209,100	210,200	210,200		
Net Plant Heat Rate (HHV Basis), Btu/kWh								
Net Plant Heat Rate - Summer	10,210	10,220	10,230	10,230	10,220	10,230		
Net Plant Heat Rate - Winter	9,870	9,870	9,880	9,880	9,890	9,880		
Net Plant Heat Rate - DMNC Summer	10,290	10,300	10,290	10,300	10,280	10,330		
Net Plant Heat Rate - DMNC Winter	9,830	9,830	9,830	9,840	9,850	9,840		
Net Plant Heat Rate - DMNC ICAP	10,360	10,360	10,360	10,360	10,360	10,360		
Estimated Startup Fuel Usage, MMBtu								
Start to Base Load	140 (fast) / 325 (typ)							

	1x0 GE 7F.05 Dual Fuel with SCR, Emissions								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS									
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO	80 4.5 49	80 4.5 49	80 4.5 49	80 4.5 49	80 4.5 49	80 4.5 49			
CO ₂	271,200	270,000	270,000	270,000	272,400	272,400			
All GTs with SCR and CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	18 4.5 11 271,200	18 4.5 11 270,000	18 4.5 11 270,000	18 4.5 11 270,000	18 4.5 11 272,400	18 4.5 11 272,400			
ESTIMATED BASE LOAD OPERATING EMISSIONS: ULTRA-LOW S	ULFUR FUEL OIL								
All GTs Operating, NO SCR / CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	430 3.4 84 361,600	430 3.4 84 360,000	430 3.4 84 360,000	430 3.4 84 360,000	430 3.5 84 363,200	430 3.5 84 363,200			
All GTs with SCR and CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	65 3.4 14 361,600	65 3.4 14 360,000	65 3.4 14 360,000	65 3.4 14 360,000	65 3.5 14 363,200	65 3.5 14 363,200			

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.
 [4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

1x0 GE 7F.05 Dual Fuel with SCR, Capital Costs								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
ESTIMATED CAPITAL AND O&M COSTS								
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)								
Labor	\$54,160,000	\$55,040,000	\$56,160,000	\$59,510,000	\$67,770,000	\$66,870,000		
Materials	\$32,930,000	\$33,470,000	\$34,150,000	\$36,180,000	\$41,200,000	\$40,660,000		
Turbines or Batteries	\$44,480,000	\$45,200,000	\$46,130,000	\$48,880,000	\$55,660,000	\$54,920,000		
Other	\$49,390,000	\$50,190,000	\$51,210,000	\$54,270,000	\$61,790,000	\$60,970,000		
EPC Project Capital Cost Subtotal, 2020\$	\$180,960,000	\$183,900,000	\$187,650,000	\$198,840,000	\$226,420,000	\$223,420,000		
Owner's Cost Allowances, 2020\$								
Owner's Project Development	\$370,000	\$370,000	\$370,000	\$370,000	\$480,000	\$410,000		
Owner's Operational Personnel Prior to COD	\$440,000	\$440,000	\$440,000	\$440,000	\$570,000	\$480,000		
Owner's Engineer	\$1,020,000	\$1,020,000	\$1,020,000	\$1,020,000	\$1,330,000	\$1,120,000		
Owner's Project Management	\$1,130,000	\$1,130,000	\$1,130,000	\$1,130,000	\$1,470,000	\$1,240,000		
Owner's Legal Costs	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,300,000	\$1,100,000		
Owner's Start-up Engineering and Commissioning	\$270,000	\$270,000	\$270,000	\$270,000	\$350,000	\$300,000		
Sales Tax	\$0	\$0	\$0	\$0	\$0	\$0		
Construction Power and Water	\$510,000	\$510,000	\$510,000	\$510,000	\$660,000	\$560,000		
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,300,000	\$1,100,000		
Switchyard	\$10,250,000	\$10,250,000	\$10,250,000	\$10,250,000	\$50,750,000	\$5,590,000		
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$6,500,000		
Gas Interconnection and Reinforcement	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000		
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0	\$0	\$0		
Emission Reduction Credits	\$100,000	\$100,000	\$100,000	\$300,000	\$300,000	\$300,000		
Political Concessions & Area Development	\$500,000	\$500,000	\$500,000	\$500,000	\$650,000	\$550,000		
Startup/Testing (Fuel & Consumables)	\$3,100,000	\$3,100,000	\$3,100,000	\$3,100,000	\$3,100,000	\$3,100,000		
Initial Fuel Inventory	\$4,880,000	\$4,880,000	\$4,880,000	\$4,880,000	\$4,880,000	\$4,880,000		
Site Security	\$580,000	\$580,000	\$580,000	\$580,000	\$750,000	\$640,000		
Operating Spare Parts	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000		
Builders Risk Insurance (0.45% of Construction Costs)	\$810,000	\$830,000	\$840,000	\$890,000	\$1,020,000	\$1,010,000		
Owner's Contingency (5% for Screening Purposes)	\$11,890,000	\$12,030,000	\$12,220,000	\$12,790,000	\$16,310,000	\$13,610,000		
Owner's Cost Allowance Subtotal, 2020\$	\$68,650,000	\$68,810,000	\$69,010,000	\$69,830,000	\$116,020,000	\$62,290,000		
AFUDC, 2020\$								
EPC Portion	\$12,667,200	\$12,873,000	\$13,135,500	\$13,918,800	\$15,849,400	\$15,639,400		
Non-EPC Portion	\$4,805,500	\$4,816,700	\$4,830,700	\$4,888,100	\$8,121,400	\$4,360,300		
AFUDC Subtotal, 2020\$	\$17,472,700	\$17,689,700	\$17,966,200	\$18,806,900	\$23,970,800	\$19,999,700		
Total Project Costs, 2020\$	\$267,082,700	\$270,399,700	\$274,626,200	\$287,476,900	\$366,410,800	\$305,709,700		
Notes:								

[1] Capital cost assumes EPC full wrap methodology. EPC electrical scope ends at the high side of the GSU. Assumes gas, water, sewer, communications are available at plant fenceline. [2] Capital costs are presented in 2020 USD \$.

[3] Estimated Costs exclude decommissioning costs and salvage values.

1x0 GE 7F.05 Dual Fuel with SCR, O&M Costs								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
FIXED O&M COSTS 2020\$/Yr								
Fixed Q&M Cost - Labor	\$900.000	\$1,000,000	\$1,300,000	\$1,300,000	\$1 700 000	\$1,500,000		
Fixed O&M Cost - Other	\$1 100 000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,100,000	\$1,000,000		
Site Leasing Allowance	\$330,000	\$330,000	\$330,000	\$330,000	\$4,050,000	\$390,000		
Total Fixed O&M Cost 2020\$/Yr	\$2,330,000	\$2 430 000	\$2 730 000	\$2 730 000	\$6 850 000	\$2 990 000		
Total Fixed O&M Cost 2020\$/kW - Yr	\$11.25	\$11.67	\$13.06	\$13.06	\$32.59	\$14.22		
LEVELIZED MAJOR MAINTENANCE COSTS								
Maior Maintenance Cost. 2020\$/GT-hr or \$/engine-hr	\$350	\$350	\$350	\$350	\$350	\$350		
Major Maintenance Cost, 2020\$/GT-start	\$9,500	\$9,500	\$9,500	\$9,500	\$9,500	\$9,500		
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAIN	TENANCE) - GAS OPERATIO)N. 2020\$/MWh						
Water Related O&M	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.00		
SCR Related Costs	\$0.58	\$0.58	\$0.58	\$0.58	\$0.57	\$0.57		
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90	\$0.91	\$0.91		
Total Variable O&M - Gas Operation, 2020\$/MWh	\$1.48	\$1.48	\$1.48	\$1.48	\$1.50	\$1.48		
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAIN	I ITENANCE) - FUEL OIL OPE	 RATION, 2020\$/MWh						
Water Related O&M	\$7.10	\$7.10	\$7.10	\$7.10	\$7.48	\$7.11		
SCR Related Costs	\$0.80	\$0.80	\$0.80	\$0.80	\$0.79	\$0.79		
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.89		
Total Variable O&M - Fuel Oil Operation, 2020\$/MWh	\$8.80	\$8.80	\$8.80	\$8.80	\$9.17	\$8.79		
Notes:								
[1] Fixed O&M costs are presented in 2020 USD \$.								
[2] FOM costs assume 7 full time personnel. FOM costs do not inc	lude engine lease fees that ma	y be available with LTSA, o	depending on OEM.					
[3] Major maintenance \$/hr holds for all aero gas turbines. Major m	naintenance \$/hr holds for fram	e gas turbines where hours	s per start is >27.					
[4] VOM assumes the use of temporarily trailers for demineralized	water treatment.							

1x0 GE 7F.05 Dual Fuel without SCR, Performance								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
BASE PLANT DESCRIPTION								
Number of Gas Turbines Representative Class Gas Turbine	1 GE 7F.05	1 GE 7F.05	1 GE 7F.05					
Startup Time to Base Load, min	11 fast / 30 conventional	11 fast / 30 conventional	11 fast / 30 conventional					
Startup Time to MECL, min Cold Startup Time to SCR Compliance, min Equivalent Forced Outage Rate Demand, % Assumed Land Use During Operation, Acres	8 fast / 24 conventional 45 4.3% 15	8 fast / 24 conventional 45 4.3% 15	8 fast / 24 conventional 45 4.3% 15					
Fuel Design	Dual Fuel (Natural Gas	Dual Fuel (Natural Gas	Dual Fuel (Natural Gas					
Inlet Conditioning	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler					
Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger					
NOx Control	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)					
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice					
Interconnection Voltage, kV	345	345	345					
Technology Rating	Mature	Mature	Mature					
Permitting & Construction Schedule (Years from FNTP)	3	3	3					
ESTIMATED PERFORMANCE								
Net Plant Capacity, kW Net Plant Output - Summer Performance Net Plant Output - Winter Performance DMNC Summer DMNC Winter DMNC ICAP	214,300 225,400 211,300 225,900 207,100	215,200 226,500 211,900 227,100 208,200	215,500 226,900 213,100 228,000 209,100					
Net Plant Heat Rate (HHV Basis), Btu/kWh Net Plant Heat Rate - Summer Net Plant Heat Rate - Winter Net Plant Heat Rate - DMNC Summer Net Plant Heat Rate - DMNC Winter Net Plant Heat Rate - DMNC ICAP Estimated Startup Fuel Usage, MMBtu Start to Base Load	10,210 9,870 10,290 9,830 10,360 140 (fast) / 325 (typ)	10,220 9,870 10,300 9,830 10,360 140 (fast) / 325 (typ)	10,230 9,880 10,290 9,830 10,360 140 (fast) / 325 (typ)					

1x0 GE 7F.05 Dual Fuel without SCR, Emissions									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL G	AS								
All GTs Operating, NO SCR / CO Catalyst (Ib/hr, HHV) NO _x	80	80	80						
SO ₂ CO CO ₂	4.5 49 271,200	4.5 49 270,000	4.5 49 270,000						
ESTIMATED BASE LOAD OPERATING EMISSIONS: ULTRA-LOW	SULFUR FUEL OIL								
All GTs Operating, NO SCR / CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	430 3.4 84 361,600	430 3.4 84 360,000	430 3.4 84 360,000						

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.

[4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

[7] Emissions estimates are shown for steady state operation at ISO conditions.

e in 2010 or later. Reporting period is 2012-2019. Im loads are based on OEM information at requested

ZONE C - Central ZONE C - Central ZONE C - Dutchess ZONE G - Rockland ZONE G - Rockland ZONE K - Long Island EPC Project Capital Costs, 2205 (w/o Owner's Costs) 543,000,000 \$44,800,000 \$30,400,000 \$30,0		1x0 GE	7F.05 Dual Fuel without	SCR, Capital Costs			
ESTIMATE CAPTAL AND CAM COSTS		ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
EPC Project Capital Costs. 2020\$ (w/o Owner's Costs) \$43,000,000 \$54,800,000 \$50,000,000 Labor Materials \$52,97180,000 \$24,140,000 \$41,040,000 Turbines or Batterine \$35,420,000 \$44,140,000 \$44,140,000 \$44,140,000 EPC Project Capital Cost Subtotal, 2020\$ \$161,320,000 \$162,000 \$45,90,000 \$45,90,000 Owner's Cost Monarces, 2025 \$162,000 \$41,000 \$44,000 \$440,000 Owner's Cost Management \$1,020,000 \$1,020,000 \$1,020,000 \$1,020,000 Owner's Logital Costs \$1,020,000 \$1,020,000 \$1,020,000 \$1,020,000 Owner's Cost Management \$1,020,000 \$1,020,000 \$1,020,000 \$1,020,000 Owner's Logital Costs \$1,000,000 \$1,000,000 \$1,020,000 \$1,020,000 Owner's Cost Management \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Statistical Favore and Water \$10,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Statistical Favore and Periodicizament \$10,000,00 \$1,000,000 \$1,000,000 <th>ESTIMATED CAPITAL AND O&M COSTS</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	ESTIMATED CAPITAL AND O&M COSTS						
EPC Project Capital Costs. 2020\$ (wio Owner's Costs) 44,800,000 \$44,800,000 \$50,000,000 Materials \$20,100,000 \$24,800,000 \$30,400,000 \$31,400,000 Turbines or Batteries \$33,420,000 \$40,000,000 \$41,600,000 \$41,600,000 Diver \$33,420,000 \$41,600,000 \$41,600,000 \$41,600,000 Diver Social Cost Subtotal, 2020\$ \$169,360,000 \$167,566,000 \$47,700,000 \$41,0000 Downer's Project Capital Cost Subtotal, 2020\$ \$370,000 \$41,0000 \$44,0000 \$44,000 Owner's Project Management \$11,000,000 \$11,30,000 \$11,30,000 \$11,30,000 Owner's Startup Englineting and Commissioning \$270,000 \$270,000 \$10,250,000 State Tax \$0 \$0 \$0 \$100,000 Owner's Startup Englineting and Commissioning \$270,000 \$10,250,000 \$10,250,000 State Tax \$0 \$0 \$0 \$0 \$10 Owner's Logating Herson and Daliverability \$11,000,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000							
Labor 543,000,000 \$43,880,000 \$50,000,000 Materials \$228,180,000 \$227,0000 \$34,000,000 Turbines or Batteries \$34,20,000 \$44,860,000 \$41,060,000 Chronic Status \$34,20,000 \$44,560,000 \$41,060,000 EPC Project Capital Cost Subtotal, 20205 \$160,860,000 \$177,050,000 \$177,050,000 Owner's Cost Minorances, 2005 \$170,000 \$370,000 \$370,000 \$370,000 Owner's Cost Minorances, 2005 \$1020,000 \$1,020,000 \$1,020,000 \$1,000,000 Owner's Engineer \$1,030,000 \$1,000,000 \$1,000,000 \$1,000,000 Owner's Logal Costs \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Safe Tax \$0 \$0 \$0 \$0 \$0 Construction Power and Water \$10,000,000 \$1,400,000 \$1,400,000 \$1,400,000 Safe Minorancedia and Rainforcament \$11,000,000 \$1,400,000 \$1,400,000 \$1,400,000 System Deliverbility \$11,000,000 \$14,300,000 \$1,400,000 \$1	EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)						
Materials \$29,180,000 \$30,400,000 \$30,400,000 Turbines or Bateries \$30,420,000 \$44,560,000 \$44,560,000 Other \$30,420,000 \$44,560,000 \$45,590,000 EPC Project Capital Cost Subtoctal, 20205 \$160,360,000 \$167,050,000 \$44,500,000 Owner's Cost Allowances, 20205 \$370,000 \$370,000 \$370,000 \$370,000 Owner's Cost Allowance Prior to COD \$440,000 \$440,000 \$440,000 \$440,000 Owner's Engineer \$1,000,000 \$1,020,000 \$1,000,000 \$1,000,000 Owner's Lagrad Codes \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Owner's Start-up Engineering and Commissioning \$270,000 \$270,000 \$270,000 \$1,000,000 Sates Tax \$0 \$0 \$0 \$0 \$0 \$0 System Olivarial Interconnection and Peinterability \$11,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 <	Labor	\$48,000,000	\$48,880,000	\$50,000,000			
Turbines or Batteries S39,420,000 S40,140,000 S41,600,000 Other S43,760,000 S44,660,000 S44,5500,000 EPC Project Capital Cost Subtotal, 2020\$ \$160,360,000 \$163,300,000 \$167,950,000 Owner's Operational Personnel Pror to COD \$440,000 \$440,000 \$440,000 Owner's Operational Personnel Pror to COD \$1,220,000 \$1,220,000 \$1,220,000 Owner's Project Management \$1,130,000 \$1,130,000 \$1,200,000 Owner's Startup Engineering and Commissioning \$270,000 \$1,000,000 \$1,000,000 Owner's Startup Engineering and Commissioning \$270,000 \$1,000,000 \$1,000,000 Status Engineering and Consissioning \$270,000 \$1,000,000 \$1,000,000 Status Engineering and Consissioning \$270,000 \$1,000,000 \$1,000,000 Status Engineering and Consissioning Status Engineering and Consissioning Status Engineering and Consission and Deliverability \$1,000,000 \$1,000,000 Status Engineering And Lonsing Fees \$1,000,000 \$1,000,000 \$1,000,000 Status Engineering Share Paris \$500,000 \$500,000 \$50	Materials	\$29,180,000	\$29,720,000	\$30,400,000			
Other 543,700,000 \$44,500,000 \$45,590,000 \$45,590,000 EPC Projec Capital Cost Subtotal, 2020\$ \$160,360,000 \$167,050,000 \$167,050,000 Owner's Cost Allowances, 2020\$ \$370,000 \$370,000 \$370,000 \$370,000 Owner's Project Development \$370,000 \$370,000 \$370,000 \$370,000 Owner's Engineer \$1,130,000 \$1,130,000 \$1,130,000 \$1,130,000 Owner's Legal Costs \$1,130,000 \$1,000,000 \$1,000,000 \$1,000,000 Owner's Legal Costs \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Sales Tax \$0 \$0 \$0 \$0 \$0 Construction Power and Water \$10,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Sales Tax \$0 \$0 \$0 \$0 \$0 \$0 Construction Power and Water \$10,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 <td>Turbines or Batteries</td> <td>\$39,420,000</td> <td>\$40,140,000</td> <td>\$41,060,000</td> <td></td> <td></td> <td></td>	Turbines or Batteries	\$39,420,000	\$40,140,000	\$41,060,000			
EPC Project Capital Cost Subtobil, 2020\$ \$160,360,000 \$167,050,000 Owner's Cost Allowances, 2020	Other	\$43,760,000	\$44,560,000	\$45,590,000			
Owner's Cost Allowances, 2203 \$370,000	EPC Project Capital Cost Subtotal, 2020\$	\$160,360,000	\$163,300,000	\$167,050,000			
Owner's Project Development \$370.000 \$370.000 \$370.000 Owner's Operational Personnel Pior to COD \$440.000 \$440.000 \$440.000 Owner's Depied Managament \$1120.000 \$1.020.000 \$1.020.000 Owner's Depied Managament \$1130.000 \$1.030.000 \$1.030.000 Owner's Legial Costs \$1.000.000 \$1.000.000 \$1.000.000 Statue Piore Pio	Owner's Cost Allowances. 2020\$						
Owner's Opérational Personnel Pero to COD \$440,000 \$440,000 \$440,000 Owner's Engineer \$1,220,000 \$1,020,000 \$1,020,000 \$1,020,000 Owner's Engineer \$1,30,000 \$1,000,000 \$1,000,000 \$1,000,000 Owner's Engineer \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Owner's Engineer \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Sales Tax \$0 \$0 \$0 \$0 \$0 Construction Power and Water \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Permitting and Licensing Fees \$1,000,000 \$1,026,000 \$1,000,000 \$1,000,000 Switchyard \$10,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 Gas Interconnection and Reinforcement \$1,43,00,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 SiteryUP Evaluation Credits \$100,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,0	Owner's Project Development	\$370.000	\$370.000	\$370.000			
Owner's Engineer \$1,020,000 \$1,020,000 \$1,020,000 Owner's Legal Costs \$1,130,000 \$1,130,000 \$1,130,000 Owner's Legal Costs \$0 \$0 \$0 Owner's Legal Costs \$1,000,000 \$1,000,000 \$1,000,000 Sales Tax \$0 \$0 \$0 \$0 Construction Power and Water \$1,000,000 \$1,000,000 \$1,000,000 Permitting and Licensing Fees \$1,000,000 \$1,000,000 \$1,000,000 Settertal Interconnaction and Deliverability \$1,000,000 \$1,000,000 \$1,000,000 Ges Interconnection and Reinforcement \$14,300,000 \$1,000,000 \$1,000,000 System Deliverability Upgrade Costs \$100,000 \$100,000 \$100,000	Owner's Operational Personnel Prior to COD	\$440,000	\$440.000	\$440.000			
Owner's Eroject Management \$1,130,000 \$1,130,000 \$1,130,000 Owner's Lapid Casts \$1,000,000 \$270,000 \$270,000 Owner's Lapid Casts \$0 \$0 \$0 Sales Tax \$0 \$0 \$1000,000 \$1000,000 Owner's Lapid Casts \$0 \$0 \$0 \$0 Sales Tax \$0 \$1000,000 \$1000,000 \$1000,000 Permitting and Licensing Fees \$1,000,000 \$10,000,00 \$10,000,00 \$10,000,00 Bit Inferconnection and Deliverability \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 Sale Inferconnection and Reinforcement \$14,300,000 \$14,300,000 \$14,300,000 Sale Inferconnection and Reinforcement \$14,300,000 \$14,300,000 \$14,300,000 Sale Inferconnection and Reinforcement \$14,300,000 \$14,300,000 \$14,300,000 Sale Inferconnection and Reinforcement \$14,300,000 \$31,00,000 \$100,000 Sale Inferconnection and Reinforcement \$50,000 \$500,000 \$500,000 Sale Inferconnection and Reinforceme	Owner's Engineer	\$1.020.000	\$1.020.000	\$1.020.000			
Owner's Legial Costs \$1,000,000 \$1,000,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$270,000 \$200,000 \$270,000 \$270,000 \$200,000 \$10,000,000 \$14,300,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,400,000 \$3,000,000 \$3,	Owner's Project Management	\$1,130,000	\$1.130.000	\$1.130.000			
Owner's Star-up Engineering and Commissioning \$270,000 \$270,000 \$270,000 Sates Tax \$0 \$0 \$0 \$0 Construction Power and Water \$10,000,000 \$10,000,000 \$10,000,000 Permitting and Licensing Fees \$10,020,000 \$10,250,000 \$10,250,000 Switchyard S11,000,000 \$10,250,000 \$11,000,000 Electrical Interconnection and Reinforcement \$11,400,000 \$14,300,000 \$14,300,000 System Deliverability Uggrade Costs \$0 \$0 \$0 \$0 Emission Reduction Credits \$100,000 \$10,000,000 \$14,300,000 \$14,300,000 Political Concessions & Area Development \$500,000 \$500,000 \$500,000 \$500,000 Startup?Testing (Fuel & Consumables) \$3,3100,000 \$3,480,000 \$4,880,000 \$4,880,000 State Development \$500,000 \$560,000 \$560,000 \$560,000 \$560,000 Operating Spare Parts \$560,000 \$560,000 \$570,000 \$750,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020S \$67,	Owner's Legal Costs	\$1.000.000	\$1.000.000	\$1.000.000			
Sales Tax So \$0 \$0 \$0 \$0 Construction Power and Water \$510,000 \$510,000 \$10,000,000 \$1,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,000,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 \$10,000,000 \$11,300,000 \$11,300,000 \$11,300,000 \$11,300,000 \$10,250,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$10,500,000 \$11,500,000 \$10,500,000 \$11,500,000 \$11,500,000 \$11,500,000 \$11,500,000 \$11,500,000 \$11,100,000 \$11,190,000 \$11,190,000 \$11,190,000 \$11,190,000 \$11,190,000 \$11,190,000 \$10,250,000 \$11,267,300	Owner's Start-up Engineering and Commissioning	\$270,000	\$270,000	\$270,000			
Construction Power and Water \$\$10,000 \$\$10,000 \$\$10,000 Permitting and Licensing Fees \$100,000 \$1,000,000 \$1,000,000 Switchyard \$10,250,000 \$10,250,000 \$10,250,000 Electrical Interconnection and Deliverability \$11,000,000 \$11,000,000 \$11,000,000 Gas Interconnection and Reinforcement \$14,300,000 \$14,300,000 \$14,300,000 System Deliverability Upgrade Costs \$0 \$0 \$0 Emission Reduction Credits \$100,000 \$100,000 \$100,000 Political Concessions & Area Development \$500,000 \$3,100,000 \$3,100,000 Startup/Testing (Fuel & Consumables) \$3,100,000 \$3,000,00 \$3,000,000 Initial Fuel Inventory \$4,880,000 \$4,880,000 \$4,880,000 Startup/Testing (Fuel & Construction Costs) \$720,000 \$750,000 \$550,000 Owmer's Contingency (5% for Screening Purposes) \$10,860,000 \$11,000,000 \$11,000,000 Owmer's Cost Allowance Subtotal, 2020\$ \$75,500,000 \$56,789,000 \$67,890,000 Cortion \$12,667,200	Sales Tax	\$0	\$0	\$0			
Permitting and Licensing Fees \$1,000,000 \$1,000,000 \$1,000,000 Switchyard \$10,250,000 \$10,250,000 \$10,250,000 \$10,250,000 Bitchical Interconnection and Deliverability \$11,000,000 \$11,000,000 \$11,000,000 Gas Interconnection and Reinforcement \$14,300,000 \$14,300,000 \$14,300,000 System Deliverability Upgrade Costs \$0 \$0 \$0 Emission Reduction Credits \$100,000 \$100,000 \$100,000 Political Concessions & Area Development \$500,000 \$500,000 \$580,000 Startup/Testing (Fuel & Consumables) \$3,100,000 \$4,880,000 \$4,880,000 Stele curity \$580,000 \$580,000 \$580,000 Operating Spare Parts \$5,500,000 \$575,0000 \$67,880,000 Builders Risk Insurance (0.45% of Construction Costs) \$720,000 \$730,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$67,520,000 \$67,880,000 \$67,890,000 Owner's Cost Allowance Subtotal, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 Non-EPC Portion <td< td=""><td>Construction Power and Water</td><td>\$510,000</td><td>\$510,000</td><td>\$510,000</td><td></td><td></td><td></td></td<>	Construction Power and Water	\$510,000	\$510,000	\$510,000			
Switchyard \$10,250,000 \$10,250,000 \$10,250,000 Electrical Interconnection and Reinforcement \$11,400,000 \$11,000,000 \$11,000,000 System Deliverability \$10,250,000 \$11,000,000 \$11,000,000 \$11,000,000 System Deliverability \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 System Deliverability \$10,250,000 \$10,000 \$10,000 \$10,000 System Deliverability \$10,000 \$10,000 \$10,000 \$10,000 System Deliverability \$10,000 \$10,000 \$10,000 \$10,000 Political Concessions & Area Development \$500,000 \$500,000 \$500,000 \$500,000 StartupTesting (Fuel & Consumables) \$3,100,000 \$4,880,000 \$4,880,000 \$4,880,000 \$4,880,000 StartupTesting (Fuel & Construction Costs) \$720,000 \$5500,000 \$5500,000 \$560,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,000,000	Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000			
Electrical Interconnection and Deliverability \$11,000,000 \$11,000,000 \$14,300,000 \$10,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$11,000,000 \$11,000,000 \$11,000,000 \$11,010,000 \$11,010,000 \$11,010,000 \$11,010,000 \$11,0100,000 \$10,010,010 \$12,010,010	Switchyard	\$10,250,000	\$10,250,000	\$10,250,000			
Gas Interconnection and Reinforcement \$14,300,000 \$14,300,000 \$14,300,000 System Deliverability Upgrade Costs \$0 \$0 \$0 Emission Reduction Credits \$100,000 \$100,000 \$100,000 Political Concessions & Area Development \$500,000 \$500,000 \$500,000 Statup/Testing (Fuel & Consumables) \$3,100,000 \$3,100,000 \$3,100,000 Initial Fuel Inventory \$4,480,000 \$4,480,000 \$4,880,000 Site Security \$580,000 \$55,000,000 \$55,000 Operating Spare Parts \$5,500,000 \$730,000 \$750,000 Builders Risk Insurance (0.45% of Construction Costs) \$720,000 \$730,000 \$750,000 Owner's Contingency (5% for Screening Purposes) \$11,800,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$67,520,000 \$67,680,000 \$67,890,000 AFUDC, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 \$13,135,500 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$220,000 \$252,926,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$248,699,700 \$252,926,200	Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000			
System Deliverability Upgrade Costs \$0 \$0 \$0 \$0 Emission Reduction Credits \$100,000 \$100,000 \$100,000 \$100,000 Political Concessions & Area Development \$500,000 \$500,000 \$100,000 \$100,000 Startup/Testing (Fuel & Consumables) \$3,100,000 \$3,100,000 \$3,100,000 \$3,100,000 Initial Fuel Inventory \$4,480,000 \$4,880,000 \$580,000 \$580,000 Site Security \$580,000 \$580,000 \$580,000 \$580,000 Operating Spare Parts \$5,500,000 \$730,000 \$750,000 \$750,000 Owner's Cost Allowance Subtotal, 2020\$ \$772,000 \$770,600 \$71,190,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$12,67,200 \$76,680,000 \$13,135,500 \$14,805,700 \$4,805,700 \$4,807,700 \$4,807,700 \$17,966,200 \$10,179,966,200 \$10,179,966,200 \$10,179,966,200 \$10,179,966,200 \$10,179,966,200 \$10,179,966,200 \$10,179,966,200 \$10,119,966,200 \$10,119,966,200 \$10,119,966,200 \$10,119,966,200 \$10,119,966,200	Gas Interconnection and Reinforcement	\$14,300,000	\$14,300,000	\$14,300,000			
Emission Reduction Credits \$100.000 \$100.000 \$100.000 Political Concessions & Area Development \$500,000 \$500,000 \$500,000 Startup/Testing (Fuel & Consumables) \$3,100,000 \$4,880,000 \$4,880,000 \$4,880,000 Initial Fuel Inventory \$4,880,000 \$4,880,000 \$580,000 \$580,000 Operating Spare Parts \$5500,000 \$5500,000 \$5500,000 \$5500,000 Builders Risk Insurance (0.45% of Construction Costs) \$720,000 \$730,000 \$11,90,000 Owner's Contingency (5% for Screening Purposes) \$10,850,000 \$11,000,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$67,520,000 \$67,880,000 \$67,890,000 AFUDC, 2020\$ \$22,667,200 \$12,873,000 \$13,135,500 PC Portion \$12,867,200 \$12,873,000 \$13,135,500 Non-EPC Portion \$12,867,200 \$12,873,000 \$13,135,500 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$224,989,9700 \$225,292,62,00	System Deliverability Upgrade Costs	\$0	\$0	\$0			
Political Concessions & Area Development \$500,000 \$500,000 \$500,000 \$500,000 Startup/Testing (Fuel & Consumables) \$3,100,000 \$3,100,000 \$3,100,000 \$3,100,000 Initial Fuel Inventory \$4,880,000 \$4,880,000 \$4,880,000 \$580,000 \$580,000 Site Security \$580,000 \$5500,000 \$5500,000 \$5500,000 \$5500,000 Development \$5,500,000 \$5500,000 \$5500,000 \$5500,000 \$5500,000 Builders Risk Insurance (0.45% of Construction Costs) \$720,000 \$730,000 \$750,000 \$0000 Owner's Cost Allowance Subtotal, 2020\$ \$10,850,000 \$11,000,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 Non-EPC Portion \$12,667,200 \$12,873,000 \$13,135,500 Non-EPC Portion \$4,805,500 \$4,816,700 \$4,830,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$220,000 <td< td=""><td>Emission Reduction Credits</td><td>\$100,000</td><td>\$100,000</td><td>\$100,000</td><td></td><td></td><td></td></td<>	Emission Reduction Credits	\$100,000	\$100,000	\$100,000			
Startup/Testing (Fuel & Consumables) \$3,100,000 \$3,100,000 \$3,100,000 Initial Fuel Inventory \$4,880,000 \$4,880,000 \$4,880,000 Site Security \$550,000 \$580,000 \$580,000 Operating Spare Parts \$5,500,000 \$5,500,000 \$5,500,000 Builders Risk Insurance (0.45% of Construction Costs) \$720,000 \$730,000 \$750,000 Owner's Contingency (5% for Screening Purposes) \$10,850,000 \$11,000,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$67,520,000 \$67,680,000 \$67,890,000 AFUDC, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 Non-EPC Portion \$4,805,500 \$4,816,700 \$4,830,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$225,926,200 \$225,926,200	Political Concessions & Area Development	\$500,000	\$500,000	\$500,000			
Initial Fuel Inventory Site Security \$4,880,000 \$4,880,000 \$4,880,000 \$4,880,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$580,000 \$550,000 \$550,000 \$550,000 \$550,000 \$55,00,000	Startup/Testing (Fuel & Consumables)	\$3,100,000	\$3,100,000	\$3,100,000			
Site Security Operating Spare Parts \$580,000 \$5,500,000 \$580,000 \$5,500,000 \$580,000 \$5,500,000 \$580,000 \$5,500,000 Builders Risk Insurance (0.45% of Construction Costs) Owner's Contingency (5% for Screening Purposes) \$720,000 \$730,000 \$750,000 Owner's Cost Allowance Subtotal, 2020\$ \$10,850,000 \$11,000,000 \$11,190,000 AFUDC, 2020\$ \$67,520,000 \$67,680,000 \$67,890,000 EPC Portion Non-EPC Portion \$12,667,200 \$12,873,000 \$13,135,500 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$4,830,700 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$225,926,200 Notes: 111 Capital cost assumes EPC full wrap methodology, EPC electrical scope ends at the high side of the GSU Assumes gas water sewer, communications are available at plant fenceline	Initial Fuel Inventory	\$4,880,000	\$4,880,000	\$4,880,000			
Operating Spare Parts \$5,500,000 \$5,500,000 \$5,500,000 Builders Risk Insurance (0.45% of Construction Costs) Owner's Contingency (5% for Screening Purposes) \$720,000 \$730,000 \$750,000 Owner's Cost Allowance Subtotal, 2020\$ \$10,850,000 \$11,000,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$67,520,000 \$67,680,000 \$67,890,000 AFUDC, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 Non-EPC Portion \$12,667,200 \$12,873,000 \$4,830,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$4,830,700 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$225,926,200 \$252,926,200	Site Security	\$580,000	\$580,000	\$580,000			
Builders Risk Insurance (0.45% of Construction Costs) Owner's Contingency (5% for Screening Purposes) \$720,000 \$730,000 \$750,000 Owner's Cost Allowance Subtotal, 2020\$ \$10,850,000 \$11,000,000 \$11,190,000 AFUDC, 2020\$ \$67,520,000 \$67,680,000 \$67,890,000 EPC Portion Non-EPC Portion \$12,667,200 \$13,135,500 \$13,135,500 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$20,000 \$225,2926,200 Notes: 11 Capital cost assumes EPC full wrap methodology. EPC electrical scope ends at the high side of the GSUL Assumes gas, water sever, communications are available at plant fenceline	Operating Spare Parts	\$5,500,000	\$5,500,000	\$5,500,000			
Owner's Contingency (5% for Screening Purposes) \$10,850,000 \$11,000,000 \$11,190,000 Owner's Cost Allowance Subtotal, 2020\$ \$67,520,000 \$67,680,000 \$67,890,000 AFUDC, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 EPC Portion \$12,667,200 \$12,873,000 \$13,135,500 Non-EPC Portion \$12,667,200 \$14,816,700 \$4,80,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$225,926,200 Notes: I11 Capital cost assumes EPC full wrap methodology, EPC electrical scope ends at the high side of the GSU Assumes gas, water sewer, communications are available at plant fenceline.	Builders Risk Insurance (0.45% of Construction Costs)	\$720,000	\$730,000	\$750,000			
Owner's Cost Allowance Subtotal, 2020\$ \$67,520,000 \$67,680,000 \$67,890,000 AFUDC, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 EPC Portion \$12,667,200 \$12,873,000 \$4,830,700 Non-EPC Portion \$4,805,500 \$4,816,700 \$4,830,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$20,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$252,926,200 \$252,926,200 Notes: I11 Capital cost assumes EPC full wrap methodology. EPC electrical scope ends at the bide side of the GSU. Assumes das water sewer communications are available at plant fenceline.	Owner's Contingency (5% for Screening Purposes)	\$10,850,000	\$11,000,000	\$11,190,000			
AFUDC, 2020\$ \$12,667,200 \$12,873,000 \$13,135,500 EPC Portion \$12,667,200 \$14,805,500 \$4,816,700 Non-EPC Portion \$4,805,500 \$4,816,700 \$4,830,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$20,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$252,926,200 \$252,926,200 Notes: I11 Capital cost assumes EPC full wrap methodology, EPC electrical scope ends at the bide side of the GSU Assumes gas water sewer communications are available at plant fenceline.	Owner's Cost Allowance Subtotal, 2020\$	\$67,520,000	\$67,680,000	\$67,890,000			
EPC Portion \$12,667,200 \$12,873,000 \$13,135,500 Non-EPC Portion \$4,805,500 \$4,816,700 \$4,830,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$252,926,200 Notes: [1] Capital cost assumes EPC full wrap methodology, EPC electrical scope ends at the high side of the GSU. Assumes gas water sewer communications are available at plant fenceline.	AFUDC, 2020\$						
Non-EPC Portion \$4,805,500 \$4,816,700 \$4,830,700 AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$252,926,200 Notes: [1] Capital cost assumes EPC full wrap methodology_EPC electrical scope ends at the high side of the GSU_Assumes gas_water_sewer_communications are available at plant fenceline.	EPC Portion	\$12.667.200	\$12.873.000	\$13,135,500			
AFUDC Subtotal, 2020\$ \$17,472,700 \$17,689,700 \$17,966,200 Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$252,926,200 Notes: [1] Capital cost assumes EPC full wrap methodology, EPC electrical scope ends at the high side of the GSU. Assumes gas, water, sewer, communications are available at plant fenceline.	Non-EPC Portion	\$4.805.500	\$4.816.700	\$4.830.700			
Rounding Adjustment to Match Demand Curve Model \$30,000 \$30,000 \$20,000 Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$252,926,200 Image: Compute Costs assumes EPC full wrap methodology EPC electrical scope ends at the high side of the GSU Assumes gas water sewer communications are available at plant fenceline	AFUDC Subtotal, 2020\$	\$17,472,700	\$17,689,700	\$17,966,200			
Total Project Costs, 2020\$ \$245,382,700 \$248,699,700 \$252,926,200 Notes: [1] Capital cost assumes EPC full wrap methodology EPC electrical scope ends at the high side of the GSU Assumes gas water sewer communications are available at plant fenceline Image: 100 mining the sever communications are available at plant fenceline	Rounding Adjustment to Match Demand Curve Model	\$30.000	\$30.000	\$20.000			
Notes:	Total Project Costs, 2020\$	\$245.382.700	\$248,699,700	\$252,926.200			
11 Capital cost assumes EPC full wrap methodology EPC electrical scope ends at the high side of the GSU Assumes gas water sewer communications are available at plant fenceline	Notes:	······································	·····	+, , , -			
	[1] Capital cost assumes EPC full wrap methodology_EPC electric	al scope ends at the high side	e of the GSU Assumes day	s water sewer communica	itions are available at plant fo	enceline	

[2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

1x0 GE 7F.05 Dual Fuel without SCR, O&M Costs							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
Fixed O&M Cost - Labor	000 000	\$1,000,000	\$1 300 000				
Fixed O&M Cost - Other	\$1 100 000	\$1,000,000	\$1,000,000				
Site Leasing Allowance	\$330,000	\$330,000	\$330,000				
Total Fixed O&M Cost 2020\$/Yr	\$2.330.000	\$2.430.000	\$2.730.000				
Total Fixed O&M Cost 2020\$/kW - Yr	\$11.25	\$11.67	\$13.06				
LEVELIZED MAJOR MAINTENANCE COSTS							
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$350	\$350	\$350				
Major Maintenance Cost, 2020\$/GT-start	\$9,500	\$9,500	\$9,500				
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTE	 ENANCE) - GAS OPERAT	 ON, 2020\$/MWh					
Water Related O&M	\$0.00	\$0.00	\$0.00				
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90				
Total Variable O&M - Gas Operation, 2020\$/MWh	\$0.90	\$0.90	\$0.90				
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTE	I ENANCE) - FUEL OIL OPE	I RATION, 2020\$/MWh					
Water Related O&M	\$7.10	\$7.10	\$7.10				
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90				
Total Variable O&M - Fuel Oil Operation, 2020\$/MWh	\$8.00	\$8.00	\$8.00				
Notes:							
[1] Fixed O&M costs are presented in 2020 USD \$.							
[2] FOM costs assume 7 full time personnel. FOM costs do not includ	le engine lease fees that m	ay be available with LTSA,	depending on OEM.				
[[3] Major maintenance \$/hr holds for all aero gas turbines. Major main	ntenance \$/hr holds for frar	ne gas turbines where hou	rs per start is >27.				
[[4] VOIN assumes the use of temporarily trailers for demineralized wa	iter treatment.						

	1x0 GE 7F.05 Gas Only with SCR, Performance								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
BASE PLANT DESCRIPTION									
Number of Gas Turbines	1	1	1	1					
Representative Class Gas Turbine	GE 7F.05	GE 7F.05	GE 7F.05	GE 7F.05					
Startup Time to Base Load, min	11 fast / 30 conventional	11 fast / 30 conventional	11 fast / 30 conventional	11 fast / 30 conventional					
Startup Time to MECL, min	8 fast / 24 conventional	8 fast / 24 conventional	8 fast / 24 conventional	8 fast / 24 conventional					
Cold Startup Time to SCR Compliance, min	45	45	45	45					
Equivalent Forced Outage Rate Demand, %	4.3%	4.3%	4.3%	4.3%					
Assumed Land Use During Operation, Acres	15	15	15	15					
Fuel Design	Natural Gas Only	Natural Gas Only	Natural Gas Only	Natural Gas Only					
Inlet Conditioning	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler					
Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger					
NOx Control	DLN (Gas), SCR	DLN (Gas), SCR	DLN (Gas), SCR	DLN (Gas), SCR					
CO Control	CO Catalyst	CO Catalyst	CO Catalyst	CO Catalyst					
Particulate Control	Good Combustion	Good Combustion	Good Combustion	Good Combustion					
	Practice	Practice	Practice	Practice					
Interconnection Voltage, kV	345	345	345	345					
Technology Rating	Mature	Mature	Mature	Mature					
Permitting & Construction Schedule (Years from FNTP)	3	3	3	3					
ESTIMATED PERFORMANCE									
Net Diant Conseity KM									
Net Plant Capacity, KW	214 200	245 200	245 500	245 400					
Net Plant Output - Summer Performance	214,300	215,200	215,500	215,400					
DMNC Summer	225,400	220,500	220,900	220,800					
	211,300	211,900	213,100	211,900					
	225,900	227,100	220,000	220,000					
DMING ICAP	207,100	200,200	209,100	209,100					
Net Plant Heat Rate (HHV Basis), Btu/kWh									
Net Plant Heat Rate - Summer	10,210	10,220	10,230	10,230					
Net Plant Heat Rate - Winter	9,870	9,870	9,880	9,880					
Net Plant Heat Rate - DMNC Summer	10,290	10,300	10,290	10,300					
Net Plant Heat Rate - DMNC Winter	9,830	9,830	9,830	9,840					
Net Plant Heat Rate - DMNC ICAP	10,360	10,360	10,360	10,360					
Estimated Startup Fuel Usage MMRtu									
Start to Base Load	140 (fast) / 325 (tun)	140 (fast) / 325 (tun)	140 (fast) / 325 (tun)	140 (fast) / 325 (tvn)					

1x0 GE 7F.05 Gas Only with SCR, Emissions								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GA	S							
All GTs Operating, NO SCR / CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	80 4.5 49 271,200	80 4.5 49 270,000	80 4.5 49 270,000	80 4.5 49 270,000				
All GTs with SCR and CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	18 4.5 11 271,200	18 4.5 11 270,000	18 4.5 11 270,000	18 4.5 11 270,000				

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.

[4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

1x0 GE 7F.05 Gas Only with SCR, Capital Costs							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
ESTIMATED CAPITAL AND O&M COSTS							
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)							
Labor	\$49,100,000	\$49,980,000	\$51,100,000	\$54,450,000			
Materials	\$29,860,000	\$30,390,000	\$31,070,000	\$33,110,000			
Turbines or Batteries	\$40,330,000	\$41,050,000	\$41,970,000	\$44,720,000			
Other	\$44,770,000	\$45,580,000	\$46,610,000	\$49,660,000			
EPC Project Capital Cost Subtotal, 2020\$	\$164,060,000	\$167,000,000	\$170,750,000	\$181,940,000			
Owner's Cost Allowances, 2020\$							
Owner's Project Development	\$370.000	\$370.000	\$370.000	\$370.000			
Owner's Operational Personnel Prior to COD	\$440.000	\$440.000	\$440.000	\$440.000			
Owner's Engineer	\$1.020.000	\$1.020.000	\$1.020.000	\$1.020.000			
Owner's Project Management	\$1,130,000	\$1,130,000	\$1,130,000	\$1,130,000			
Owner's Legal Costs	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000			
Owner's Start-up Engineering and Commissioning	\$270,000	\$270,000	\$270,000	\$270,000			
Sales Tax	\$0	\$0	\$0	\$0			
Construction Power and Water	\$510,000	\$510,000	\$510,000	\$510,000			
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000			
Switchyard	\$10,250,000	\$10,250,000	\$10,250,000	\$10,250,000			
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000			
Gas Interconnection and Reinforcement	\$14,300,000	\$14,300,000	\$14,300,000	\$14,300,000			
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0			
Emission Reduction Credits	\$100,000	\$100,000	\$100,000	\$300,000			
Political Concessions & Area Development Fees	\$500,000	\$500,000	\$500,000	\$500,000			
Startup/Testing (Fuel & Consumables)	\$3,100,000	\$3,100,000	\$3,100,000	\$3,100,000			
Initial Fuel Inventory	\$0	\$0	\$0	\$0			
Site Security	\$580,000	\$580,000	\$580,000	\$580,000			
Operating Spare Parts	\$5,500,000	\$5,500,000	\$5,500,000	\$5,500,000			
Builders Risk Insurance (0.45% of Construction Costs)	\$738,270	\$751,500	\$768,375	\$818,730			
Owner's Contingency (5% for Screening Purposes)	\$11,045,000	\$11,185,000	\$11,375,000	\$11,945,000			
Owner's Cost Allowance Subtotal, 2020\$	\$62,853,270	\$63,006,500	\$63,213,375	\$64,033,730			
AFUDC, 2020\$							
EPC Portion	\$12,667,200	\$12,873,000	\$13,135,500	\$13,918,800			
Non-EPC Portion	\$4,805,500	\$4,816,700	\$4,830,700	\$4,888,100			
AFUDC Subtotal, 2020\$	\$17,472,700	\$17,689,700	\$17,966,200	\$18,806,900			
Rounding Adjustment to Match Demand Curve Model	-\$3,270	\$3,500	-\$3,375	-\$3,730			
Total Project Costs, 2020\$	\$244,382,700	\$247,699,700	\$251,926,200	\$264,776,900			
Notes:	· · · ·						
[1] Capital cost assumes EPC full wrap methodology. EPC electric	cal scope ends at the high side	e of the GSU. Assumes a	s. water. sewer. communica	ations are available at plant	fenceline.		
		- 3-	, , , ,	1			

[2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

1x0 GE 7F.05 Gas Only with SCR, O&M Costs								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
FIXED O&M COSTS, 2020\$/Yr								
Fixed O&M Cost - Labor	\$900,000	\$1,000,000	\$1,300,000	\$1,300,000				
Fixed O&M Cost - Other	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000				
Site Leasing Allowance	\$330,000	\$330,000	\$330,000	\$330,000				
Total Fixed O&M Cost 2020\$/Yr	\$2,330,000	\$2,430,000	\$2,730,000	\$2,730,000				
Total Fixed O&M Cost 2020\$/kW - Yr	\$11.3	\$11.7	\$13.1	\$13.1				
LEVELIZED MAJOR MAINTENANCE COSTS								
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$350	\$350	\$350	\$350				
Major Maintenance Cost, 2020\$/GT-start	\$9,500	\$9,500	\$9,500	\$9,500				
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINT	 ENANCE) - GAS OPERATI	 ON, 2020\$/MWh						
Water Related O&M	\$0.00	\$0.00	\$0.00	\$0.00				
SCR Related Costs	\$0.58	\$0.58	\$0.58	\$0.58				
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90				
Total Variable O&M - Gas Operation, 2020\$/MWh	\$1.48	\$1.48	\$1.48	\$1.48				
Notes:								
[[1] Fixed O&M costs are presented in 2020 USD \$.	do ongino logoo fogo that m	ay ba ayailabla with LTCA	depending on OEM					

[2] FOM costs assume 7 full time personnel. FOM costs do not include engine lease fees that may be available with LTSA, depending on OEM.
 [3] Major maintenance \$/hr holds for all aero gas turbines. Major maintenance \$/hr holds for frame gas turbines where hours per start is >27.
 [4] VOM assumes the use of temporarily trailers for demineralized water treatment.

	1x0 GE	7F.05 Gas Only without S	SCR, Performance			
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
BASE PLANT DESCRIPTION						
Number of Gas Turbines	1	1	1			
Representative Class Gas Turbine	GE 7F.05	GE 7F.05	GE 7F.05			
Startup Time to Base Load, min	10 fast / 30 conventional	10 fast / 30 conventional	10 fast / 30 conventional			
Startup Time to MECL, min Cold Startup Time to SCR Compliance, min	8 fast / 24 conventional 45	8 fast / 24 conventional 45	8 fast / 24 conventional 45			
Equivalent Forced Outage Rate Demand. %	4.3%	4.3%	4.3%			
Assumed Land Use During Operation. Acres	15	15	15			
Fuel Design	Natural Gas Only	Natural Gas Only	Natural Gas Only			
Inlet Conditioning	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler			
Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger			
NOx Control	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)			
CO Control	CO Catalyst	CO Catalyst	CO Catalyst			
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice			
Interconnection Voltage, kV	345	345	345			
Technology Rating	Mature	Mature	Mature			
Permitting & Construction Schedule (Years from FNTP)	3	3	3			
ESTIMATED PERFORMANCE		1				
Net Plant Capacity, kW						
Net Plant Output - Summer Performance	214,300	215,200	215,500			
Net Plant Output - Winter Performance	225,400	226,500	226,900			
DMNC Summer	211,300	211,900	213,100			
DMNC Winter	225,900	227,100	228,000			
DMNC ICAP	207,100	208,200	209,100			
Net Plant Heat Rate (HHV Basis), Btu/kWh						
Net Plant Heat Rate - Summer	10,210	10,220	10,230			
Net Plant Heat Rate - Winter	9,870	9,870	9,880			
Net Plant Heat Rate - DMNC Summer	10,290	10,300	10,290			
Net Plant Heat Rate - DMNC Winter	9,830	9,830	9,830			
Net Plant Heat Rate - DMNC ICAP	10,360	10,360	10,360			
Estimated Startup Eucl Usaga						
Start to Base Load MMBtu	1/0 (fast) / 325 (tup)	1/0 (fast) / 325 (tup)	1/0 (fact) / 325 (turn)			

1x0 GE 7F.05 Gas Only without SCR, Emissions								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GA	S							
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	80 4.5 49 271,200	80 4.5 49 270,000	80 4.5 49 270,000					

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019. [4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

	1x0 GE 7F.05 Gas Only without SCR, Capital Costs							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
ESTIMATED CAPITAL AND O&M COSTS								
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)								
Labor	\$42,940,000	\$43,820,000	\$44,940,000					
Materials	\$26,110,000	\$26,640,000	\$27,320,000					
Turbines or Batteries	\$35,260,000	\$35,990,000	\$36,910,000					
Other	\$39,150,000	\$39,950,000	\$40,980,000					
EPC Project Capital Cost Subtotal, 2020\$	\$143,460,000	\$146,400,000	\$150,150,000					
Owner's Cost Allowances. 2020\$								
Owner's Project Development	\$370.000	\$370.000	\$370.000					
Owner's Operational Personnel Prior to COD	\$440.000	\$440,000	\$440,000					
Owner's Engineer	\$1.020.000	\$1.020.000	\$1.020.000					
Owner's Project Management	\$1.130.000	\$1,130,000	\$1,130,000					
Owner's Legal Costs	\$1.000.000	\$1.000.000	\$1,000,000					
Owner's Start-up Engineering and Commissioning	\$270.000	\$270.000	\$270.000					
Sales Tax	\$0	\$0	\$0					
Construction Power and Water	\$510,000	\$510,000	\$510,000					
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000					
Switchyard	\$10,250,000	\$10,250,000	\$10,250,000					
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000					
Gas Interconnection and Reinforcement	\$14,300,000	\$14,300,000	\$14,300,000					
System Deliverability Upgrade Costs	\$0	\$0	\$0					
Emission Reduction Credits	\$100,000	\$100,000	\$100,000					
Political Concessions & Area Development	\$500,000	\$500,000	\$500,000					
Startup/Testing (Fuel & Consumables)	\$3,100,000	\$3,100,000	\$3,100,000					
Initial Fuel Inventory	\$0	\$0	\$0					
Site Security	\$580,000	\$580,000	\$580,000					
Operating Spare Parts	\$5,500,000	\$5,500,000	\$5,500,000					
Builders Risk Insurance (0.45% of Construction Costs)	\$650,000	\$660,000	\$680,000					
Owner's Contingency (5% for Screening Purposes)	\$10,015,000	\$10,155,000	\$10,345,000					
Owner's Cost Allowance Subtotal, 2020\$	\$61,735,000	\$61,885,000	\$62,095,000					
AFUDC, 2020\$								
EPC Portion	\$12,667,200	\$12,873,000	\$13,135,500					
Non-EPC Portion	\$4,805,500	\$4,816,700	\$4,830,700					
AFUDC Subtotal, 2020\$	\$17,472,700	\$17,689,700	\$17,966,200					
Rounding Adjustment to Match Demand Curve Model	\$15,000	\$25,000	\$15,000					
Total Project Costs, 2020\$	\$222,682,700	\$225,999,700	\$230,226,200					
Notes:								
[1] Capital cost assumes EPC full wrap methodology. EPC electric	al scope ends at the high side	e of the GSU. Assumes day	s. water. sewer. communica	tions are available at plant f	enceline.			
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[2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

1x0 GE 7F.05 Gas Only without SCR, O&M Costs							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
FIXED O&M COSTS, 2020\$/Yr	¢000.000	¢1.000.000	¢1 200 000				
Fixed O&M Cost - Labor Fixed O&M Cost - Other	\$900,000	\$1,000,000	\$1,300,000				
Site Leasing Allowance	\$330.000	\$330.000	\$330.000				
Total Fixed O&M Cost 2020\$/Yr	\$2,330,000	\$2,430,000	\$2,730,000				
Total Fixed O&M Cost 2020\$/kW - Yr	\$11.3	\$11.7	\$13.1				
LEVELIZED MAJOR MAINTENANCE COSTS							
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$350	\$350	\$350				
Major Maintenance Cost, 2020\$/GT-start	\$9,500	\$9,500	\$9,500				
Major Maintenance Cost, 2020\$/MWh	\$1.50	\$1.50	\$1.50				
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINT	 ENANCE) - GAS OPERATI	 ON, 2020\$/MWh					
Water Related O&M	\$0.00	\$0.00	\$0.00				
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90				
Total Variable O&M - Gas Operation, 2020\$/MWh	\$0.90	\$0.90	\$0.90				
Notes:							
[1] Fixed O&M costs are presented in 2020 USD \$.							
[2] FOM costs assume 7 full time personnel. FOM costs do not includ	te engine lease fees that ma	ay be available with LTSA,	depending on OEM.				
[3] Major maintenance \$/hr holds for all aero gas turbines. Major mai	ntenance \$/hr holds for fran	ne gas turbines where hou	rs per start is >27.				

[4] VOM assumes the use of temporarily trailers for demineralized water treatment.

Constrain ZONE C - Central ZONE C - Central ZONE G - Dutchess ZONE G - Rockland ZONE G - Nurches Nurdber G Gas Turbines 1 <t< th=""><th></th><th>1x0 GE 7HA.02 tun</th><th>ed to emit 25ppm Dual Fu</th><th>el with SCR, Performanc</th><th>e</th><th></th><th></th></t<>		1x0 GE 7HA.02 tun	ed to emit 25ppm Dual Fu	el with SCR, Performanc	e		
BASE FLANT DESCRIPTION I		ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
Number of Gas Turbines 1	BASE PLANT DESCRIPTION						
Representative Class Gas Turbine GE 7HA.02 GE	Number of Gas Turbines	1	1	1	1	1	1
Startup Time to Base Load, min 10 fast / 30 conventional 16 fast / 30 conventional <	Representative Class Gas Turbine	GE 7HA.02					
Startup Time to MECL, min B fast / 24 conventional 8 fast / 24 conventional 4 fast Assumed Land Use During Operation. Acres Dial Fuel (Natural Gas and Fuel Oil) Dual Fuel (Natural Gas and Fuel Oil) Dual Fuel (Natural Gas and Fuel Oil) Evaporative Cooler Evaporative Cooler Evaporative Cooler Fin Fan Heat Exchanger F	Startup Time to Base Load, min	10 fast / 30 conventional					
Cold Statup Time to SCR Compliance, min 45 45 45 45 45 45 45 45 45 45 43% Equivalent Forced Outage Rate Domand, % 4.3% <	Startup Time to MECL, min	8 fast / 24 conventional					
Equivalent Forced Outge Rate Demand. % 4.3% 5.2%	Cold Startup Time to SCR Compliance, min	45	45	45	45	45	45
Assumed Land Use During Operation, Acres 15 15 15 15 15 15 15 15 16 Fuel Design Dual Fuel (Natural Gas and Fuel OII) Dual Fuel	Equivalent Forced Outage Rate Demand, %	4.3%	4.3%	4.3%	4.3%	4.3%	4.3%
Fuel DesignDual Fuel (Natural Gas and Fuel OII) Tuel ConditioningDual Fuel (Natural Gas and Fuel OII) Evaporative CoolerDual Fuel (Natural Gas Ban Fuel ControlDual Fuel (Natural Gas Ban Fuel OII) Evaporative CoolerDual Fuel (Natural Gas Ban Fuel OII) Evaporative CoolerDual Fuel (Natural Gas Evaporative CoolerDual Fuel (Natural Gas Ban Fuel OII) Evaporative CoolerDual Fuel (Natural Gas Evaporative CoolerDual Fuel (Natural Gas Evaporative CoolerDual Fuel (Natural Gas Evaporative CoolerDual Fuel (Natural Gas Evaporative CoolerDual Fuel (Natural Gas Evapor	Assumed Land Use During Operation, Acres	15	15	15	15	15	15
In let ConditioningEvaporative CoolerEvaporative CoolerEvap	Fuel Design	Dual Fuel (Natural Gas and Fuel Oil)					
Heat RejectionFin Fan Heat ExchangerFin Fan Heat ExchangerParticulate ControlPractice	Inlet Conditioning	Evaporative Cooler					
NOX ControlDLN (Gas), Water Injection (Fuel Oil), SCR CO ControlDLN (Gas), Water Injection (Fuel Oil), SCR CO CatalystDLN (Gas), Water 	Heat Rejection	Fin Fan Heat Exchanger					
CO Control Injection (Fuel OII), SCR Injecti	NOx Control	DLN (Gas), Water					
Col Catalyst Particulate ControlCol Catalyst Good Combustion PracticeCol Catalyst Good Combustion Good Combustion PracticeCol Catalyst Good		Injection (Fuel Oil), SCR	Injection (Fuel OII), SCR	Injection (Fuel Oil), SCR	Injection (Fuel OII), SCR	Injection (Fuel OII), SCR	Injection (Fuel Oil), SCR
Particulate Control Good Combustion Practice Practice <th< td=""><td>CO Control</td><td>CO Catalyst</td><td>CO Catalyst</td><td>CO Catalyst</td><td>CO Catalyst</td><td>CO Catalyst</td><td>CO Catalyst</td></th<>	CO Control	CO Catalyst					
Interconnection Voltage, kV 345 345 345 345 345 345 345 345 138 Technology Rating Mature Mature<	Particulate Control	Good Compustion Practice	Practice	Practice	Practice	Practice	Practice
Technology Rating Mature	Interconnection Voltage, kV	345	345	345	345	345	138
Permitting & Construction Schedule (Years from FNTP) 3 3 3 3 3 3 3 3 ESTIMATED PERFORMANCE Net Plant Capacity, kW Net Plant Output - Summer Performance 352,800 354,300 355,100 355,000 357,400 357,200 DMNC Summer 388,900 350,200 370,800 370,700 371,600 372,200 DMNC Winter 366,000 367,900 350,200 350,200 354,500 354,300 373,300 DMNC Winter 366,000 367,900 370,100 370,500 374,300 373,300 DMNC ICAP 343,700 345,600 347,000 347,000 348,800 348,800 Net Plant Heat Rate - Summer 9,380 9,380 9,390 9,380 9,390 9,380 9,390 9,290 9,390 9,290 9,390 9,290 9,390 9,290 9,390 9,290 9,290 9,390 9,290 9,290 9,290 9,290 9,290 9,290 9,29	Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature
ESTIMATED PERFORMANCE Net Plant Capacity, kW Net Plant Output - Summer Performance 352,800 354,300 355,100 355,000 357,400 357,200 Net Plant Output - Winter Performance 368,100 369,900 370,800 370,700 371,600 372,200 DMNC Summer 348,900 350,200 352,000 350,200 350,200 354,300 373,300 373,300 373,300 373,300 373,300 374,300 373,300 373,300 374,300 373,300 373,300 374,300 373,300 373,300 374,300 373,300 374,300 374,300 373,300 348,800 9,290 9,300 9,290 9,300 9,290 9,300	Permitting & Construction Schedule (Years from FNTP)	3	3	3	3	3	3
Net Plant Capacity, kW 352,800 354,300 355,100 355,000 357,400 357,200 Net Plant Output - Winter Performance 368,100 369,900 370,800 370,700 371,600 372,200 DMNC Summer 348,900 350,200 352,000 350,200 350,200 352,600 352,600 DMNC Winter 366,000 367,900 370,100 370,500 374,300 373,300 DMNC ICAP 343,700 345,600 367,900 370,100 370,500 374,300 373,300 Net Plant Heat Rate (HHV Basis), Btu/kWh Net Plant Heat Rate - Summer 9,380 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,380 9,390 9,290 9,300 9,290 9,300 9,290 9,300 9,290 9,300 9,290 9,300 9,290 9,440	ESTIMATED PERFORMANCE		•	•	•	•	•
Net Plant Capacity, kW V							
Net Plant Output - Summer Performance 352,800 354,300 355,100 355,000 357,400 357,200 Net Plant Output - Winter Performance 368,100 369,900 370,800 370,700 371,600 372,200 DMNC Summer 348,900 350,200 352,000 350,200 354,300 374,300 374,300 374,300 372,200 DMNC Winter 366,000 367,900 370,100 370,500 374,300 373,300 373,300 373,300 373,300 373,300 373,800 348,800 <t< td=""><td>Net Plant Capacity, kW</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Net Plant Capacity, kW						
Net Plant Output - Winter Performance 368,100 369,900 370,800 370,700 371,600 372,200 DMNC Summer 348,900 350,200 352,000 350,200 350,200 354,500 352,600 DMNC Winter 366,000 367,900 370,100 370,500 374,300 373,300 DMNC ICAP 366,000 367,900 345,600 347,000 348,800 348,800 Net Plant Heat Rate (HHV Basis), Btu/kWh	Net Plant Output - Summer Performance	352,800	354,300	355,100	355,000	357,400	357,200
DMNC Summer 348,900 350,200 352,000 350,200 354,500 352,600 DMNC Winter 366,000 367,900 370,100 370,500 374,300 373,300 DMNC ICAP 343,700 345,600 347,000 347,000 348,800 348,800 Net Plant Heat Rate (HHV Basis), Btu/kWh Part Heat Rate - Summer 9,380 9,380 9,390 9,390 9,380 9,390 Net Plant Heat Rate - Winter 9,270 9,270 9,280 9,290 9,300 9,290 Net Plant Heat Rate - DMNC Summer 9,430 9,430 9,430 9,430 9,430 9,430 9,430 9,440 Net Plant Heat Rate - DMNC Winter 9,210 9,210 9,210 9,220 9,250 9,230 Net Plant Heat Rate - DMNC ICAP 9,460 9	Net Plant Output - Winter Performance	368,100	369,900	370,800	370,700	371,600	372,200
DMNC Winter 366,000 367,900 370,100 370,500 374,300 373,300 DMNC ICAP 343,700 345,600 347,000 347,000 348,800 348,800 Net Plant Heat Rate - Summer 9,380 9,380 9,390 9,390 9,380 9,390 Net Plant Heat Rate - Winter 9,270 9,270 9,280 9,290 9,300 9,290 Net Plant Heat Rate - DMNC Summer 9,430 9,210 9,220 9,250 9,230 9,230 9,460 9,460 9,460 9,460 9,460 9,460 9,460 9,460 9,460 9,460 9,460 9,460 9,460 9,460 <td< td=""><td>DMNC Summer</td><td>348,900</td><td>350,200</td><td>352,000</td><td>350,200</td><td>354,500</td><td>352,600</td></td<>	DMNC Summer	348,900	350,200	352,000	350,200	354,500	352,600
DMNC ICAP 343,700 345,600 347,000 347,000 348,800 348,800 Net Plant Heat Rate (HHV Basis), Btu/kWh -<	DMNC Winter	366,000	367,900	370,100	370,500	374,300	373,300
Net Plant Heat Rate (HHV Basis), Btu/kWh 9,380 9,380 9,390 9,390 9,380 9,390 Net Plant Heat Rate - Summer 9,380 9,380 9,390 9,390 9,380 9,390 Net Plant Heat Rate - Winter 9,270 9,270 9,280 9,290 9,300 9,290 Net Plant Heat Rate - DMNC Summer 9,430 9,430 9,430 9,430 9,430 9,420 9,440 Net Plant Heat Rate - DMNC Winter 9,210 9,210 9,210 9,220 9,250 9,230 Net Plant Heat Rate - DMNC ICAP 9,460	DMNC ICAP	343,700	345,600	347,000	347,000	348,800	348,800
Net Plant Heat Rate - Summer 9,380 9,380 9,390 9,390 9,380 9,390 Net Plant Heat Rate - Winter 9,270 9,270 9,280 9,290 9,300 9,290 Net Plant Heat Rate - DMNC Summer 9,430 9,430 9,430 9,430 9,430 9,440 Net Plant Heat Rate - DMNC Winter 9,210 9,210 9,210 9,220 9,250 9,230 Net Plant Heat Rate - DMNC ICAP 9,460 9,	Net Plant Heat Rate (HHV Basis), Btu/kWh						
Net Plant Heat Rate - Winter 9,270 9,270 9,280 9,290 9,300 9,290 Net Plant Heat Rate - DMNC Summer 9,430 9,430 9,430 9,430 9,430 9,430 9,440 Net Plant Heat Rate - DMNC Winter 9,210 9,210 9,210 9,210 9,230 9,230 Net Plant Heat Rate - DMNC ICAP 9,460 <t< td=""><td>Net Plant Heat Rate - Summer</td><td>9,380</td><td>9,380</td><td>9,390</td><td>9,390</td><td>9,380</td><td>9,390</td></t<>	Net Plant Heat Rate - Summer	9,380	9,380	9,390	9,390	9,380	9,390
Net Plant Heat Rate - DMNC Summer 9,430 9,430 9,430 9,430 9,430 9,430 9,430 9,430 9,430 9,440 9,440 9,230 9,230 9,230 9,230 9,230 9,230 9,460	Net Plant Heat Rate - Winter	9,270	9,270	9,280	9,290	9,300	9,290
Net Plant Heat Rate - DMNC Winter 9,210 9,210 9,210 9,220 9,250 9,230 Net Plant Heat Rate - DMNC ICAP 9,460	Net Plant Heat Rate - DMNC Summer	9,430	9,430	9,430	9,430	9,420	9,440
Net Plant Heat Rate - DMNC ICAP 9,460 9,460 9,460 9,460 9,460 Estimated Startup Fuel Usage, MMBtu Image: MMBtu I	Net Plant Heat Rate - DMNC Winter	9,210	9,210	9,210	9,220	9,250	9,230
Estimated Startup Fuel Usage, MMBtu	Net Plant Heat Rate - DMNC ICAP	9,460	9,460	9,460	9,460	9,460	9,460
	Estimated Startup Fuel Usage, MMBtu						
Start to Base Load 240 (fast) / 490 (typ) 240 (Start to Base Load	240 (fast) / 490 (typ)					

1x0 GE 7HA.02 tuned to emit 25ppm Dual Fuel with SCR, Emissions									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS									
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV)									
NO _x	331	331	331	331	331	331			
SO ₂	6.8	6.8	6.8	6.8	6.8	6.8			
CO	72	72	72	72	72	72			
CO ₂	408,000	405,600	406,800	406,800	409,200	409,200			
All GTs with SCR and CO Catalyst (lb/hr, HHV)									
NO _x	26	26	26	26	26	26			
SO ₂	6.8	6.8	6.8	6.8	6.8	6.8			
СО	16	16	16	16	16	16			
CO ₂	408,000	405,600	406,800	406,800	409,200	409,200			
ESTIMATED BASE LOAD OPERATING EMISSIONS: UI TRA-LOW SU									
			<u> </u>						
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV)									
NO _x	640	640	640	640	640	640			
SO ₂	5.2	5.1	5.2	5.2	5.2	5.2			
СО	109	109	109	109	109	109			
CO ₂	544,000	540,800	542,400	542,400	545,600	545,600			
All GTs with SCR and CO Catalyst (lb/hr. HHV)									
NO ₂	96	96	96	96	96	96			
SO ₂	5.2	5.1	5.2	5.2	5.2	5.2			
CO	19	19	19	19	19	19			
CO ₂	544,000	540,800	542,400	542,400	545,600	545,600			

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.
 [4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested

ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

1x0 GE 7HA.02 tuned to emit 25ppm Dual Fuel with SCR, Capital Costs								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
ESTIMATED CAPITAL AND O&M COSTS			Ī					
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)								
Labor	\$62.440.000	\$63.210.000	\$64.170.000	\$66.750.000	\$75.200.000	\$74.450.000		
Materials	\$40.170.000	\$40.670.000	\$41,290,000	\$42,950,000	\$48.380.000	\$47,900,000		
Turbines or Batteries	\$88,500,000	\$89,590,000	\$90,950,000	\$94,610,000	\$106,590,000	\$105,530,000		
Other	\$58,470,000	\$59.170.000	\$60.080.000	\$62,500,000	\$70,410,000	\$69.700.000		
EPC Project Capital Cost Subtotal, 2020\$	\$249,580,000	\$252,640,000	\$256,490,000	\$266,810,000	\$300,580,000	\$297,580,000		
Owner's Cost Allowances. 2020\$								
Owner's Project Development	\$370.000	\$370.000	\$370.000	\$370.000	\$480.000	\$410.000		
Owner's Operational Personnel Prior to COD	\$440.000	\$440.000	\$440.000	\$440.000	\$570.000	\$480.000		
Owner's Engineer	\$1.020.000	\$1.020.000	\$1.020.000	\$1.020.000	\$1.330.000	\$1,120,000		
Owner's Project Management	\$1.130.000	\$1.130.000	\$1,130,000	\$1.130.000	\$1.470.000	\$1.240.000		
Owner's Legal Costs	\$1.000.000	\$1.000.000	\$1.000.000	\$1.000.000	\$1.300.000	\$1.100.000		
Owner's Start-up Engineering and Commissioning	\$270,000	\$270,000	\$270.000	\$270,000	\$350,000	\$300,000		
Sales Tax	\$0	\$0	\$0	\$Ó	\$0	\$0		
Construction Power and Water	\$550,000	\$550,000	\$550,000	\$550,000	\$720,000	\$610,000		
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,300,000	\$1,100,000		
Switchyard	\$10,250,000	\$10,250,000	\$10,250,000	\$10,250,000	\$50,750,000	\$5,590,000		
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$6,500,000		
Gas Interconnection and Reinforcement	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000		
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0	\$0	\$0		
Emission Reduction Credits	\$100,000	\$100,000	\$100,000	\$400,000	\$400,000	\$400,000		
Political Concessions & Area Development	\$500,000	\$500,000	\$500,000	\$500,000	\$650,000	\$550,000		
Startup/Testing (Fuel & Consumables)	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000		
Initial Fuel Inventory	\$7,240,000	\$7,240,000	\$7,240,000	\$7,240,000	\$7,240,000	\$7,240,000		
Site Security	\$580,000	\$580,000	\$580,000	\$580,000	\$750,000	\$640,000		
Operating Spare Parts	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000		
Builders Risk Insurance (0.45% of Construction Costs)	\$1,120,000	\$1,140,000	\$1,150,000	\$1,200,000	\$1,350,000	\$1,340,000		
Owner's Contingency (5% for Screening Purposes)	\$15,750,000	\$15,910,000	\$16,100,000	\$16,630,000	\$20,460,000	\$17,750,000		
Owner's Cost Allowance Subtotal, 2020\$	\$81,220,000	\$81,400,000	\$81,600,000	\$82,480,000	\$129,020,000	\$75,270,000		
AFUDC, 2020\$								
EPC Portion	\$17,470,600	\$17,684,800	\$17,954,300	\$18,676,700	\$21,040,600	\$20,830,600		
Non-EPC Portion	\$5,685,400	\$5,698,000	\$5,712,000	\$5,773,600	\$9,031,400	\$5,268,900		
AFUDC Subtotal, 2020\$	\$23,156,000	\$23,382,800	\$23,666,300	\$24,450,300	\$30,072,000	\$26,099,500		
Total Project Costs, 2020\$	\$353,956,000	\$357,422,800	\$361,756,300	\$373,740,300	\$459,672,000	\$398,949,500		
Notes:								

[1] Capital cost assumes EPC full wrap methodology. EPC electrical scope ends at the high side of the GSU. Assumes gas, water, sewer, communications are available at plant fenceline. [2] Capital costs are presented in 2020 USD \$.

[3] Estimated Costs exclude decommissioning costs and salvage values.

	1x0 GE 7HA.02 tur	red to emit 25ppm Dual F	uel with SCR, O&M Costs	;		
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
FIXED O&M COSTS, 2020\$/Yr	1 1	1				
Fixed O&M Cost - Labor	\$900,000	\$1,000,000	\$1,300,000	\$1,300,000	\$1,700,000	\$1,500,000
Fixed O&M Cost - Other	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Site Leasing Allowance	\$330,000	\$330,000	\$330,000	\$330,000	\$4,050,000	\$390,000
Total Fixed O&M Cost 2020\$/Yr	\$2,730,000	\$2,830,000	\$3,130,000	\$3,130,000	\$7,250,000	\$3,390,000
Total Fixed O&M Cost 2020\$/kW - Yr	\$7.94	\$8.19	\$9.02	\$9.02	\$20.79	\$9.72
LEVELIZED MAJOR MAINTENANCE COSTS						
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$600	\$600	\$600	\$600	\$600	\$600
Major Maintenance Cost, 2020\$/GT-start	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTEN/	ANCE) - GAS OPERATION	l, 2020\$/MWh		1		
Water Related O&M	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.00
SCR Related Costs	\$0.47	\$0.37	\$0.37	\$0.37	\$0.48	\$0.37
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90
Total Variable Variable O&M - Gas Operation, 2020\$/MWh	\$1.37	\$1.27	\$1.27	\$1.27	\$1.39	\$1.27
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTEN/	NCE) - FUEL OIL OPERA	TION, 2020\$/MWh				
Water Related O&M	\$7.10	\$7.10	\$7.10	\$7.10	\$9.83	\$7.10
SCR Related Costs	\$0.80	\$0.80	\$0.80	\$0.80	\$0.70	\$0.80
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90	\$0.90
Total Variable Variable O&M - Fuel Oil Operation, 2020\$/MWh	\$8.80	\$8.80	\$8.80	\$8.80	\$11.44	\$8.80
Notes:						
[1] Fixed O&M costs are presented in 2020 USD \$.						
[2] FOM costs assume 7 full time personnel. FOM costs do not include e	ngine lease fees that may b	be available with LTSA, de	pending on OEM.			
[3] Major maintenance \$/hr holds for all aero gas turbines. Major mainter	iance \$/hr holds for frame o	ງas turbines where hours r	per start is >27.			

[4] VOM assumes the use of temporarily trailers for demineralized water treatment.

BASE PLANT DESCRIPTION Number of Gas Turbines Representative Class Gas Turbine	2ONE C - Central 1 GE 7HA.02 10 fast / 30 conventional	ZONE F - Capital 1 GE 7HA 02	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
BASE PLANT DESCRIPTION Number of Gas Turbines Representative Class Gas Turbine	1 GE 7HA.02 10 fast / 30 conventional	1 GE 7HA 02	1			
Number of Gas Turbines Representative Class Gas Turbine	1 GE 7HA.02 10 fast / 30 conventional	1 GE 7HA 02	1			
Representative Class Gas Turbine	GE 7HA.02 10 fast / 30 conventional	GE 7HA 02	1			
	10 fast / 30 conventional	02110402	GE 7HA.02			
Startup Time to Base Load, min		10 fast / 30 conventional	10 fast / 30 conventional			
Startup Time to MECL, min	8 fast / 24 conventional	8 fast / 24 conventional	8 fast / 24 conventional			
Cold Startup Time to SCR Compliance, min	45	45	45			
Equivalent Forced Outage Rate Demand, %	4.3%	4.3%	4.3%			
Assumed Land Use During Operation, Acres	15	15	15			
Fuel Design	Dual Fuel (Natural Gas	Dual Fuel (Natural Gas	Dual Fuel (Natural Gas			
Inlet Conditioning	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler			
Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger			
NOx Control	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)			
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice			
Interconnection Voltage, kV	345	345	345			
Technology Rating	Mature	Mature	Mature			
Permitting & Construction Schedule (Years from FNTP)	3	3	3			
ESTIMATED PERFORMANCE						
Net Plant Capacity, kW						
Net Plant Output - Summer Performance	335,300	336,700	337,400			
Net Plant Output - Winter Performance	346,700	348,400	349,200			
DMNC Summer	332,000	333,200	334,900			
DMNC Winter	344,800	346,600	348,600			
DMNC ICAP	326,700	328,500	329,900			
Net Plant Heat Rate (HHV Basis), Btu/kWh						
Net Plant Heat Rate - Summer	9,400	9,270	9,400			
Net Plant Heat Rate - Winter	9,310	9,180	9,310			
Net Plant Heat Rate - DMNC Summer	9,440	9,300	9,440			
Net Plant Heat Rate - DMNC Winter	9,250	9,150	9,240			
Net Plant Heat Rate - DMNC ICAP	9,490	9,380	9,490			
Estimated Startup Fuel Usage, MMBtu						
Start to Base Load	240 (fast) / 490 (typ)	240 (fast) / 490 (typ)	240 (fast) / 490 (typ)			

1x0 GE 7HA.02 tuned to emit 15ppm Dual Fuel without SCR, Emissions										
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island				
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GA	AS									
All GTs Operating, NO SCR / CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	189 6.4 69 381,600	189 6.3 69 379,200	189 6.4 69 385,200							
ESTIMATED BASE LOAD OPERATING EMISSIONS: ULTRA-LOW	SULFUR FUEL OIL									
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	640 4.8 109 508,800	640 4.8 109 505,600	640 4.9 109 513,600							

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.

[4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

			ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NTC	ZONE K - Long Island
2511MATED CAPITAL AND 0&M COSTS		1				
-PC Project Capital Casts, 2020\$ (w/o Owner's Casts)						
Labor	\$51 570 000	\$52,340,000	\$53 310 000			
Matoriale	\$37,570,000	\$32,540,000	\$33,310,000			
Turbines or Batteries	\$73,100,000	\$33,000,000	\$75 550 000			
	\$73,100,000	\$74,190,000	\$49,900,000			
EPC Project Capital Cost Subtotal, 2020\$	\$206,140,000	\$209,210,000	\$213,060,000			
Dumer's Cost Allowerson, 2020¢						
Owner's Cost Allowances, 2020	¢270.000	¢270.000	¢370.000			
Owner's Project Development	\$370,000	\$370,000	\$370,000			
	\$440,000		\$440,000			
Owner's Engineer	\$1,020,000	\$1,020,000	\$1,020,000			
Owner's Froject Management	\$1,130,000	\$1,130,000	\$1,130,000			
Owner's Start up Engineering and Commissioning						
Salos Tax	\$270,000	\$270,000	\$270,000 ¢0			
Construction Power and Water	\$550,000	\$550,000	\$550,000			
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000			
Switchvard	\$10,250,000	\$10,250,000	\$10,250,000			
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000			
Gas Interconnection and Reinforcement	\$17,900,000	\$17,900,000	\$17,900,000			
System Deliverability Upgrade Costs	\$0	\$0	\$0			
Emission Reduction Credits	\$100,000	\$100,000	\$100,000			
Political Concessions & Area Development	\$500,000	\$500,000	\$500,000			
Startup/Testing (Fuel & Consumables)	\$4,500,000	\$4,500,000	\$4,500,000			
Initial Fuel Inventory	\$7.240.000	\$7.240.000	\$7.240.000			
Site Security	\$580,000	\$580,000	\$580,000			
Operating Spare Parts	\$6,500,000	\$6,500,000	\$6,500,000			
Builders Risk Insurance (0.45% of Construction Costs)	\$927,637	\$941,435	\$958,762			
Owner's Contingency (5% for Screening Purposes)	\$13,570,961	\$13,724,963	\$13,918,354			
Owner's Cost Allowance Subtotal, 2020\$	\$78,848,598	\$79,016,398	\$79,227,116			
AFUDC. 2020\$						
EPC Portion	\$14.429.910	\$14.644.548	\$14.914.082			
Non-EPC Portion	\$5,519,402	\$5,531,148	\$5,545,898			
AFUDC Subtotal, 2020\$	\$19,949,312	\$20,175,695	\$20,459,980			
Rounding Adjustment to Match Demand Curve Model	\$1,578	-\$2,177	-\$1,681			
Total Project Costs, 2020\$	\$304,939,488	\$308,399,916	\$312,745,415			

[2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

	1x0 GE 7HA.02 tur	ed to emit 15ppm Dual F	Fuel without SCR, O&M Co	osts		
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
FIXED O&M COSTS, 2020\$/Yr						
Fixed O&M Cost - Labor	\$900,000	\$1,000,000	\$1,300,000			
Fixed O&M Cost - Other	\$1,500,000	\$1,500,000	\$1,500,000			
Site Leasing Allowance	\$330,000	\$330,000	\$330,000			
Total Fixed O&M Cost 2020\$/Yr	\$2,730,000	\$2,830,000	\$3,130,000			
Total Fixed O&M Cost 2020\$/kW - Yr	\$8.36	\$8.61	\$9.49			
LEVELIZED MAJOR MAINTENANCE COSTS						
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$600	\$600	\$600			
Major Maintenance Cost, 2020\$/GT-start	\$16,200	\$16,200	\$16,200			
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINT	 ENANCE) - GAS OPERAT	 ION, 2020\$/MWh				
Water Related O&M	\$0.00	\$0.00	\$0.00			
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90			
Total Variable O&M - Gas Operation, 2020\$/MWh	\$0.90	\$0.90	\$0.90			
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINT	 ENANCE) - FUEL OIL OPI	I ERATION, 2020\$/MWh				
Water Related O&M	\$9.30	\$9.30	\$9.30			
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90			
Total Variable O&M - Fuel Oil Operation, 2020\$/MWh	\$10.20	\$10.20	\$10.20			
Notes:						
[1] Fixed O&M costs are presented in 2020 USD \$.						
[2] FOM costs assume 7 full time personnel. FOM costs do not includ	le engine lease fees that m	ay be available with LTSA	, depending on OEM.			
[3] Major maintenance \$/hr holds for all aero gas turbines. Major main	ntenance \$/hr holds for frai	me gas turbines where hou	urs per start is >27.			
[4] VOM assumes the use of temporarily trailers for demineralized was	iter treatment.					

ZONE C - CentralZONE G - CapitalZONE G - DutchessZONE G - RocklandZONE J - NYCZONE K - Long IslandBASE PLANT DESCRIPTION111 <td< th=""><th></th><th colspan="10">1x0 GE 7HA.02 tuned to emit 25ppm Gas Only with SCR, Performance</th></td<>		1x0 GE 7HA.02 tuned to emit 25ppm Gas Only with SCR, Performance									
BASE PLANT DESCRIPTIONIIIINumber of Gas Turbines11111Representative Class Gas TurbineGE 7HA.02GE 7HA.02GE 7HA.02GE 7HA.02Startup Time to Base Load, min10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventionalStartup Time to Base Load, min8 fast / 24 conventional10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventionalStartup Time to MECL, min8 fast / 24 conventional8 fast / 24 conventional8 fast / 24 conventional8 fast / 24 conventionalCold Startup Time to SCR Compliance, min45454545Equivalent Forced Outage Rate Demand, %4.3%4.3%4.3%4.3%Assumed Land Use During Operation, Acres15151515Fuel DesignNatural Gas OnlyNatural Gas OnlyNatural Gas OnlyNatural Gas Only		ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island				
Number of Gas Turbines11111Representative Class Gas TurbineGE 7HA.02GE 7HA.02GE 7HA.02GE 7HA.02Startup Time to Base Load, min10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventionalStartup Time to MECL, min8 fast / 24 conventional8 fast / 24 conventional8 fast / 24 conventional8 fast / 24 conventionalCold Startup Time to SCR Compliance, min45454545Equivalent Forced Outage Rate Demand, %4.3%4.3%4.3%4.3%Assumed Land Use During Operation, Acres15151515Fuel DesignNatural Gas OnlyNatural Gas OnlyNatural Gas OnlyNatural Gas Only	BASE PLANT DESCRIPTION										
Representative Class Gas TurbineGE 7HA.02GE 7HA.02GE 7HA.02GE 7HA.02Startup Time to Base Load, min10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventionalStartup Time to MECL, min Cold Startup Time to SCR Compliance, min8 fast / 24 conventional 458 fast / 24 conventional8 fast / 24 conventional 458 fast / 24 conventional 458 fast / 24 conventional 45Equivalent Forced Outage Rate Demand, % Assumed Land Use During Operation, Acres15151515Fuel DesignNatural Gas OnlyNatural Gas OnlyNatural Gas OnlyNatural Gas OnlyNatural Gas Only	Number of Gas Turbines	1	1	1	1						
Startup Time to Base Load, min10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventional10 fast / 30 conventionalStartup Time to MECL, min8 fast / 24 conventional8 fast / 24 conventional8 fast / 24 conventional8 fast / 24 conventionalCold Startup Time to SCR Compliance, min454545Equivalent Forced Outage Rate Demand, %4.3%4.3%4.3%Assumed Land Use During Operation, Acres151515Fuel DesignNatural Gas OnlyNatural Gas OnlyNatural Gas Only	Representative Class Gas Turbine	GE 7HA.02	GE 7HA.02	GE 7HA.02	GE 7HA.02						
Startup Time to MECL, min Cold Startup Time to SCR Compliance, min8 fast / 24 conventional 458 fast / 24 conventional 45	Startup Time to Base Load, min	10 fast / 30 conventional	10 fast / 30 conventional	10 fast / 30 conventional	10 fast / 30 conventional						
Cold Startup Time to SCR Compliance, min454545Equivalent Forced Outage Rate Demand, %4.3%4.3%4.3%Assumed Land Use During Operation, Acres151515Fuel DesignNatural Gas OnlyNatural Gas OnlyNatural Gas Only	Startup Time to MECL, min	8 fast / 24 conventional	8 fast / 24 conventional	8 fast / 24 conventional	8 fast / 24 conventional						
Equivalent Forced Outage Rate Demand, %4.3%4.3%4.3%Assumed Land Use During Operation, Acres151515Fuel DesignNatural Gas OnlyNatural Gas OnlyNatural Gas Only	Cold Startup Time to SCR Compliance, min	45	45	45	45						
Assumed Land Use During Operation, Acres 15 15 15 15 Fuel Design Natural Gas Only Natural Gas Only Natural Gas Only Natural Gas Only	Equivalent Forced Outage Rate Demand, %	4.3%	4.3%	4.3%	4.3%						
Fuel Design Natural Gas Only Natural Gas Only Natural Gas Only	Assumed Land Use During Operation, Acres	15	15	15	15						
	Fuel Design	Natural Gas Only	Natural Gas Only	Natural Gas Only	Natural Gas Only						
Evaporative Cooler Evaporative Cooler Evaporative Cooler Evaporative Cooler	Inlet Conditioning	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler						
Heat RejectionFin Fan Heat ExchangerFin Fan Heat ExchangerFin Fan Heat ExchangerFin Fan Heat Exchanger	Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger						
NOx Control DLN (Gas), SCR DLN (Gas), SCR DLN (Gas), SCR DLN (Gas), SCR	NOx Control	DLN (Gas), SCR	DLN (Gas), SCR	DLN (Gas), SCR	DLN (Gas), SCR						
CO Control CO Catalyst CO Catalyst CO Catalyst CO Catalyst	CO Control	CO Catalyst	CO Catalyst	CO Catalyst	CO Catalyst						
Good Combustion Good Combustion Good Combustion Good Combustion	Particulate Control	Good Combustion	Good Combustion	Good Combustion	Good Combustion						
Practice Practice Practice Practice Practice		Practice	Practice	Practice	Practice						
Interconnection Voltage, kV 345 345 345	Interconnection Voltage, kV	345	345	345	345						
Technology Rating Mature Mature Mature	Technology Rating	Mature	Mature	Mature	Mature						
Permitting & Construction Schedule (Years from FNTP) 3 3 3 3	Permitting & Construction Schedule (Years from FNTP)	3	3	3	3						
ESTIMATED PERFORMANCE	ESTIMATED PERFORMANCE				1						
Net Plant Capacity, KW	Net Plant Capacity, KW	252,000	254 200	255 400	255.000						
Net Plant Output - Summer Performance 352,800 354,300 355,100 355,000 Net Plant Output - Winter Derformance 369,100 360,000 370,200 370,200	Net Plant Output - Summer Performance	352,600	354,300	355,100							
Net Plant Output - Winter Performance 308,100 309,900 370,000 370,700 DMNC Summer 348,000 350,200 350,200 350,200 350,200 350,200	DMNC Summer	348,000	350,900	370,800	370,700						
DMNC Summer 340,900 350,200 352,000 350,200	DMNC Summer	346,900	367,000	370,100	370,500						
DMNC ICAP 343 700 345 600 347 000 347 000		343 700	345 600	347,000	347,000						
DIVING ICAP 343,000 347,000 347,000		545,700	545,000	547,000	547,000						
Net Plant Heat Rate (HHV Basis), Btu/kWh	Net Plant Heat Rate (HHV Basis), Btu/kWh										
Net Plant Heat Rate - Summer 9,380 9,380 9,390 9,390	Net Plant Heat Rate - Summer	9,380	9,380	9,390	9,390						
Net Plant Heat Rate - Winter 9,270 9,270 9,280 9,290	Net Plant Heat Rate - Winter	9,270	9,270	9,280	9,290						
Net Plant Heat Rate - DMNC Summer 9,430 9,430 9,430	Net Plant Heat Rate - DMNC Summer	9,430	9,430	9,430	9,430						
Net Plant Heat Rate - DMNC Winter 9,210 9,210 9,210 9,220	Net Plant Heat Rate - DMNC Winter	9,210	9,210	9,210	9,220						
Net Plant Heat Rate - DMNC ICAP 9,460 9,460 9,460	Net Plant Heat Rate - DMNC ICAP	9,460	9,460	9,460	9,460						
	Fatimated Otartum Fuel Haama MMEDIC										
Estimated Startup Fuel Usage, MMBtu	Estimated Startup Fuel Usage, MMBtu	$240 (f_{22}) / 400 (f_{22})$	$0.40.(f_{0.0}t).(400.(t_{0.0}t))$	$240 (f_{00}) / 400 (f_{00})$	$240 (f_{00}) / 400 (h_{m})$						
240 (last) / 490 (typ) = 240 (last) / 490 (t	Start to base Load	∠40 (iasi) / 490 (iyp)	240 (iasi) / 490 (iyp)	∠40 (iasi) / 490 (iyp)	∠40 (iasi) / 490 (iyp)						

1x0 GE 7HA.02 tuned to emit 25ppm Gas Only with SCR, Emissions									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS									
All GTs Operating, NO SCR / CO Catalyst (Ib/hr, HHV) NO _x SO ₂ CO CO ₂	331 6.8 72 408,000	331 6.8 72 405,600	331 6.8 72 406,800	331 6.8 72 406,800					
All GTs with SCR and CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	26 6.8 16 408,000	26 6.8 16 405,600	26 6.8 16 406,800	26 6.8 16 406,800					

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.

[4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

	1x0 GE 7HA.02 tu	ned to emit 25ppm Gas (Dnly with SCR, Capital Co	sts		
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED CAPITAL AND O&M COSTS						
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)						
Labor	\$56,090,000	\$56,850,000	\$57,820,000	\$60,400,000		
Materials	\$36,090,000	\$36,580,000	\$37,200,000	\$38,860,000		
Turbines or Batteries	\$79,500,000	\$80,580,000	\$81,950,000	\$85,610,000		
Other	\$52,500,000	\$53,230,000	\$54,120,000	\$56,540,000		
EPC Project Capital Cost Subtotal, 2020\$	\$224,180,000	\$227,240,000	\$231,090,000	\$241,410,000		
Owner's Cost Allowances, 2020\$						
Owner's Project Development	\$370,000	\$370,000	\$370.000	\$370.000		
Owner's Operational Personnel Prior to COD	\$440,000	\$440,000	\$440,000	\$440,000		
Owner's Engineer	\$1 020 000	\$1 020 000	\$1 020 000	\$1 020 000		
Owner's Project Management	\$1,130,000	\$1,130,000	\$1,020,000	\$1,130,000		
Owner's Legal Costs	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000		
Owner's Start-up Engineering and Commissioning	\$270,000	\$270,000	\$270,000	\$270,000		
Sales Tax	\$0	\$0	\$0	\$0		
Construction Power and Water	\$550,000	\$550,000	\$550,000	\$550,000		
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000		
Switchvard	\$10,250,000	\$10,250,000	\$10,250,000	\$10,250,000		
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000		
Gas Interconnection and Reinforcement	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000		
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0		
Emission Reduction Credits	\$100.000	\$100.000	\$100.000	\$400.000		
Political Concessions & Area Development Fees	\$500.000	\$500.000	\$500.000	\$500.000		
Startup/Testing (Fuel & Consumables)	\$4.500.000	\$4.500.000	\$4.500.000	\$4.500.000		
Initial Fuel Inventory	\$0	\$0	\$0	\$0		
Site Security	\$580,000	\$580,000	\$580,000	\$580,000		
Operating Spare Parts	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000		
Builders Risk Insurance (0.45% of Construction Costs)	\$1,008,810	\$1 022 580	\$1 039 905	\$1 086 345		
Owner's Contingency (5% for Screening Purposes)	\$14 480 000	\$14 640 000	\$14 830 000	\$15,360,000		
Owner's Cost Allowance Subtotal, 2020\$	\$72,598,810	\$72,772,580	\$72,979,905	\$73,856,345		
EDC Dartian	¢17,470,600	¢17 694 900	\$17.054.200	¢19 676 700		
Non EPC Portion	\$17,470,000	\$5,608,000	\$17,954,500	\$10,070,700		
AFUDC Subtotal, 2020\$	\$3,083,400 \$23,156,000	\$3,382,800	\$23,666,300	\$24,450,300		
Pounding Adjustment to Match Demand Curve Medal	¢04.400	¢07.400	¢20.005	¢02 655		
Total Project Costs 2020		Ψ∠1,4∠U ¢222,422,000	€20,02¢	⊕∠3,033 ¢220,740,200		
liotal Project Costs, 2020\$	<u> </u>	₩ \$323,422,800	↓ \$3∠1,156,300	\$339,740,300		

[2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

1x0 GE 7HA.02 tuned to emit 25ppm Dual Fuel with SCR, O&M Costs									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
FIXED O&M COSTS, 2020\$/Yr									
Fixed O&M Cost - Labor	\$900,000	\$1,000,000	\$1,300,000	\$1,300,000					
Fixed O&M Cost - Other	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000					
Site Leasing Allowance	\$330,000	\$330,000	\$330,000	\$330,000					
Total Fixed O&M Cost 2020\$/Yr	\$2,730,000	\$2,830,000	\$3,130,000	\$3,130,000					
Total Fixed O&M Cost 2020\$/kW - Yr	\$7.94	\$8.19	\$9.02	\$9.02					
LEVELIZED MAJOR MAINTENANCE COSTS									
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$600	\$600	\$600	\$600					
Major Maintenance Cost, 2020\$/GT-start	\$16,200	\$16,200	\$16,200	\$16,200					
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MA	INTENANCE) - GAS OPERAT	 ION, 2020\$/MWh							
Water Related O&M	\$0.00	\$0.00	\$0.00	\$0.00					
SCR Related Costs	\$0.47	\$0.37	\$0.37	\$0.37					
Other Consumables and Variable O&M	\$0.90	\$0.90	\$0.90	\$0.90					
Total Variable O&M - Gas Operation, 2020\$/MWh	\$1.37	\$1.27	\$1.27	\$1.27					
Notes:									
[1] Fixed O&M costs are presented in 2020 USD \$.									
[2] FOM costs assume 7 full time personnel. FOM costs do not ir	clude engine lease fees that m	ay be available with LTSA	, depending on OEM.						
[3] Major maintenance \$/hr holds for all aero gas turbines. Major	maintenance \$/hr holds for frai	ne gas turbines where hou	irs per start is >27.						

[4] VOM assumes the use of temporarily trailers for demineralized water treatment.

1x0 GE 7HA.02 tuned to emit 15ppm Gas Only without SCR, Performance									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
BASE PLANT DESCRIPTION									
Number of Gas Turbines Representative Class Cas Turbine									
Startup Time to Pass Load, min	10 fact / 20 conventional	10 fast / 20 conventional	10 fact / 20 conventional						
Startup Time to Base Load, min	TO Tast / 50 conventional	TO TASE / SO CONVENTIONAL	TO Tast / 50 conventional						
Startup Time to MECL, min Cold Startup Time to SCR Compliance, min Equivalent Forced Outage Rate Demand, % Assumed Land Use During Operation, Acres Fuel Design Inlet Conditioning	8 fast / 24 conventional 45 4.3% 15 Natural Gas Only Evaporative Cooler	8 fast / 24 conventional 45 4.3% 15 Natural Gas Only Evaporative Cooler	8 fast / 24 conventional 45 4.3% 15 Natural Gas Only Evaporative Cooler						
Heat Rejection	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger	Fin Fan Heat Exchanger						
NOx Control	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)	DLN (Gas), Water Injection (Fuel Oil)						
CO Control	CO Catalyst	CO Catalyst	CO Catalyst						
Particulate Control	Good Combustion Practice	Good Combustion Practice	Good Combustion Practice						
Interconnection Voltage, kV	345	345	345						
Technology Rating	Mature	Mature	Mature						
Permitting & Construction Schedule (Years from FNTP)	3	3	3						
ESTIMATED PERFORMANCE		1							
Net Plant Capacity, kW Net Plant Output - Summer Performance Net Plant Output - Winter Performance DMNC Summer DMNC Winter DMNC ICAP	335,300 346,700 332,000 344,800 326,700	336,700 348,400 333,200 346,600 328,500	337,400 349,200 334,900 348,600 329,900						
 Net Plant Heat Rate (HHV Basis), Btu/kWh Net Plant Heat Rate - Summer Net Plant Heat Rate - Winter Net Plant Heat Rate - DMNC Summer Net Plant Heat Rate - DMNC Winter Net Plant Heat Rate - DMNC ICAP Estimated Startup Fuel Usage Start to Base Load, MMBtu	9,400 9,310 9,440 9,250 9,490 240 (fast) / 490 (typ)	9,270 9,180 9,300 9,150 9,380 240 (fast) / 490 (typ)	9,400 9,310 9,440 9,240 9,490 240 (fast) / 490 (typ)						

1x0 GE 7HA.02 tuned to emit 15ppm Gas Only without SCR, Emissions									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS									
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	189 6.4 69 381,600	189 6.3 69 379,200	189 6.4 69 385,200						

[1] Simple cycle GT starts are not affected by hot, warm or cold conditions. Simple cycle starts assume purge credits are available.

[2] MECL start time assumes the min load at which the GT achieves the steady state NOx emissions ppm rate. The SCR compliance start time assumes a cold start, ending at the time when the catalysts are heated and the NOx levels meet the desired SCR emissions.

[3] Outage and availability statistics are collected using the NERC Generating Availability Data System. Simple cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019. [4] Degraded performance assumed for all scenarios. For frame units, 3% average degradation is assumed. All performance ratings based on natural gas operation. Minimum loads are based on OEM information at requested ambient conditions.

[5] Assumes incoming gas pressure of 250 psig. Compression included in EPC scope. Owner's costs include 5 miles pipeline for all zones except Zone J, which assumes 1 mile. 12" pipeline for aero and F class. 16" pipeline for J class.

[6] Fuel Oil emissions based on ultra low sulfur diesel. Per the US EPA, this fuel must meet 15 ppm sulfur.

Z ESTIMATED CAPITAL AND O&M COSTS EPC Project Capital Costs, 2020\$ (w/o Owner's Costs) Labor Materials Turbines or Batteries Other	ONE C - Central \$45,220,000 \$29,090,000	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED CAPITAL AND O&M COSTS EPC Project Capital Costs, 2020\$ (w/o Owner's Costs) Labor Materials Turbines or Batteries Other	\$45,220,000 \$29,090,000	0 45 000 000				
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs) Labor Materials Turbines or Batteries	\$45,220,000 \$29.090.000	.				
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs) Labor Materials Turbines or Batteries	\$45,220,000 \$29.090.000	ALE 000 000				
Labor Materials Turbines or Batteries Other	\$45,220,000 \$29.090.000	MAE 000 000				
Materials Turbines or Batteries Other	\$29.090.000	\$45,990,000	\$46,950,000			
Turbines or Batteries	$_{\tau} = \circ, \circ \circ \circ, \circ \circ \circ$	\$29,590,000	\$30,210,000			
Other	\$64,090,000	\$65,180,000	\$66,550,000			
Other	\$42,340,000	\$43,050,000	\$43,950,000			
EPC Project Capital Cost Subtotal, 2020\$	\$180,740,000	\$183,810,000	\$187,660,000			
Owner's Cost Allowances, 2020\$						
Owner's Project Development	\$370,000	\$370,000	\$370,000			
Owner's Operational Personnel Prior to COD	\$440,000	\$440,000	\$440,000			
Owner's Engineer	\$1,020,000	\$1 020 000	\$1 020 000			
Owner's Project Management	\$1,130,000	\$1,020,000	\$1 130 000			
Owner's Legal Costs	\$1,000,000	\$1,000,000	\$1,000,000			
Owner's Start-up Engineering and Commissioning	\$270,000	\$270,000	\$270,000			
Sales Tax	\$0	\$0	\$0			
Construction Power and Water	\$550,000	\$550,000	\$550,000			
Permitting and Licensing Fees	\$1.000.000	\$1,000,000	\$1,000,000			
Switchvard	\$10,250,000	\$10,250,000	\$10,250,000			
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000			
Gas Interconnection and Reinforcement	\$17,900,000	\$17,900,000	\$17,900,000			
System Deliverability Upgrade Costs	\$0	\$0	\$0			
Emission Reduction Credits	\$100.000	\$100.000	\$100.000			
Political Concessions & Area Development	\$500.000	\$500.000	\$500.000			
Startup/Testing (Fuel & Consumables)	\$4.500.000	\$4.500.000	\$4.500.000			
Initial Fuel Inventory	\$0	\$0	\$0			
Site Security	\$580,000	\$580,000	\$580,000			
Operating Spare Parts	\$6,500,000	\$6,500,000	\$6,500,000			
Builders Risk Insurance (0.45% of Construction Costs)	\$810.000	\$830,000	\$840.000			
Owner's Contingency (5% for Screening Purposes)	\$12,300,961	\$12 454 963	\$12 648 354			
Owner's Cost Allowance Subtotal, 2020\$	\$70,220,961	\$70,394,963	\$70,598,354			
EPC Portion	¢14 420 010	¢14 644 549	¢14 014 092			
Non EPC Portion	\$14,429,910 \$5,510,402	\$14,044,040 \$5,531,178	\$14,914,082			
AEUDC Subtotal 2020\$	¢10 0/0 212	¢3,331,140	¢3,343,898			
	\$19,949,31Z	φ20,175,055	\$20,439,900			
Rounding Adjustment to Match Demand Curve Model	\$29,215	\$19,258	\$27,081			
Total Project Costs, 2020\$	\$270,939,488	\$274,399,916	\$278,745,415			

[2] Capital costs are presented in 2020 USD \$. [3] Estimated Costs exclude decommissioning costs and salvage values.

1x0 GE 7HA.02 tuned to emit 15ppm Gas Only without SCR, O&M Costs								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
FIXED O&M COSTS, 2020\$/Yr								
Fixed O&M Cost - Labor	\$900,000	\$1,000,000	\$1,300,000					
Fixed O&M Cost - Other	\$1,500,000	\$1,500,000	\$1,500,000					
Site Leasing Allowance	\$330,000	\$330,000	\$330,000					
Total Fixed O&M Cost 2020\$/Yr	\$2,730,000	\$2,830,000	\$3,130,000					
Total Fixed O&M Cost 2020\$/kW - Yr	\$8.4	\$8.6	\$9.5					
LEVELIZED MAJOR MAINTENANCE COSTS								
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$600	\$600	\$600					
Major Maintenance Cost, 2020\$/GT-start	\$16,200	\$16,200	\$16,200					
Major Maintenance Cost, 2020\$/MWh	\$1.60	\$1.60	\$1.60					
NON-FUEL VARIABLE U&W CUSTS (EXCLUDES WAJOR MAINTE	ENANCE) - GAS OPERATI		\$0.00					
Water Related U&M	\$0.00	\$0.00	\$0.00					
	\$0.90	\$0.90	\$0.90					
I otal Variable O&M - Gas Operation, 2020\$/MWh	\$0.90	\$0.90	\$0.90					
Notes:								
[1] Fixed O&M costs are presented in 2020 USD \$.								
[2] FOM costs assume 7 full time personnel. FOM costs do not includ	e engine lease fees that m	ay be available with LTSA,	depending on OEM.					
[3] Major maintenance \$/hr holds for all aero gas turbines. Major mair	ntenance \$/hr holds for fran	ne gas turbines where hou	rs per start is >27.					

[4] VOM assumes the use of temporarily trailers for demineralized water treatment.

1x1 GE 7HA.02 Dual Fuel with SCR, Performance									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
BASE PLANT DESCRIPTION									
Number of Gas Turbines	1	1	1	1	1	1			
Number of Steam Turbines	1	1	1	1	1	1			
Representative Class Gas Turbine	GE 7HA.02								
Steam Conditions (Main Steam / Reheat)	1,085°F / 1,085°F								
Main Steam Pressure	2330	2330	2330	2330	2330	2330			
Steam Cycle Type	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical	Subcritical			
Startup Time, Minutes (Cold Start to Unfired Base Load)	180	180	180	180	180	180			
Startup Time, Minutes (Warm Start to Unfired Base Load)	120	120	120	120	120	120			
Startup Time, Minutes (Hot Start to Unfired Base Load)	80	80	80	80	80	80			
Startup Time, Minutes (Cold Start to Stack Emissions Compliance)	60	60	60	60	60	60			
Equivalent Forced Outage Rate Demand, %	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%			
Assumed Land Use During Operation, Acres	30	30	30	30	30	30			
Fuel Design	Dual Fuel (Natural Gas and Fuel Oil)								
Inlet Conditioning	Evaporative Cooler								
	Air Cooled Condenser								
Heat Rejection	(ACC)	(ACC)	(ACC)	(ACC)	(ACC)	(ACC)			
NOx Control	DÌN/SĆR	DÌN/SĆR	DÌN/SĆR	DÌN/SĆR	DÌN/SĆR	DÌN/SĆR			
CO Control	Oxidation Catalyst								
Particulate Control	Good Combustion								
	Practice	Practice	Practice	Practice	Practice	Practice			
Interconnection Voltage, kV	345	345	345	345	345	345			
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature			
Permitting & Construction Schedule (Years from FNTP)	4	4	4	4	4	4			

	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED PERFORMANCE						
Net Plant Capacity - Base Load, kW						
Net Plant Output - Summer Performance	509,900	513,300	514,700	514,700	512,300	517,900
Net Plant Output - Winter Performance	539,200	542,100	544,800	544,800	546,700	547,800
DMNC Summer	486,000	488,300	486,500	486,500	484,700	501,600
DMNC Winter	530,000	532,500	536,300	536,300	544,900	542,600
DMNC ICAP	495,100	498,500	500,600	500,600	502,200	502,500
Net Plant Heat Rate (HHV Basis) - Base Load, Btu/kWh						
Net Plant Heat Rate - Summer	6,370	6,360	6,360	6,360	6,370	6,370
Net Plant Heat Rate - Winter	6,360	6,360	6,350	6,350	6,350	6,340
Net Plant Heat Rate - DMNC Summer	6,410	6,410	6,410	6,410	6,440	6,400
Net Plant Heat Rate - DMNC Winter	6,390	6,390	6,390	6,390	6,380	6,380
Net Plant Heat Rate - DMNC ICAP	6,410	6,400	6,400	6,400	6,410	6,410
Net Plant Capacity - Single Turbine at MECL, kW						
Net Plant Output - Summer Performance	232,100	233,400	234,000	234,000	232,300	235,700
Net Plant Output - Winter Performance	197,000	198,000	198,700	198,700	199,300	199,500
DMNC Summer	216,900	218,300	217,400	217,400	216,500	224,300
DMNC Winter	196,100	197,100	198,400	198,400	200,400	200,000
DMNC ICAP	221,500	223,400	224,400	224,400	225,300	224,900
Net Plant Heat Rate (HHV Basis) - Single Turbine at MECL, Btu/k	 Wh					
Net Plant Heat Rate - Summer	7,130	7,130	7,130	7,130	7,180	7,130
Net Plant Heat Rate - Winter	7,570	7,560	7,550	7,550	7,530	7,540
Net Plant Heat Rate - DMNC Summer	7,370	7,350	7,370	7,370	7,400	7,330
Net Plant Heat Rate - DMNC Winter	7,650	7,650	7,630	7,630	7,590	7,620
Net Plant Heat Rate - DMNC ICAP	7,340	7,320	7,320	7,320	7,320	7,340
Estimated Startup Fuel Usage, MMBtu						
Start to Unfired Base Load (Warm Start)	3,940	3,940	3,940	3,940	3,940	3,940

1x1 GE 7HA.02 Dual Fuel with SCR, Emissions									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GA	AS								
All GTs with SCR and CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	26 6.6 16 393,600	26 6.7 16 403,200	26 6.7 16 404,400	26 6.7 16 404,400	26 6.8 16 406,800	26 6.8 16 406,800			
ESTIMATED BASE LOAD OPERATING EMISSIONS: ULTRA-LOW	SULFUR FUEL OIL								
All GTs Operating, NO SCR / CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂ All GTs with SCR and CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	N/A N/A N/A 96 5.2 19 544,000	N/A N/A N/A 96 5.1 19 540,800	N/A N/A N/A N/A 96 5.2 19 542,400	N/A N/A N/A 96 5.2 19 542,400	N/A N/A N/A 96 5.2 19 545,600	N/A N/A N/A 96 5.2 19 545,600			

[1] Performance ratings were determined using heat balance modeling software. Performance is based on 1.8% average degradation for capacity and 1.1% average degradation for heat rate. All performance is based on NATURAL GAS operation. Min load ratings are based on OEM performance information at specified ambient conditions.

[2] The duct firing incremental values note incremental performance output. The incremental heat rate reflects the effective heat rate of the additional output due to the duct burners.

[3] Startup time to stack emissions compliance is not the same as the start time for gas turbine MECL. Stack emissions compliance is expected to be limited by the temperature of the CO catalyst, which impacts VOC emissions.

[4] Outage and availability statistics are collected using the NERC Generating Availability Data System. Combined cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019. [5] Cold start is >72 hours after shutdown. Hot start is <8 hours after shutdown.

[6] Startup times reflect unrestricted, conventional starts for all gas turbines. These start times assume the inclusion of terminal point desuperheaters, full bypass, and associated controls. Fast start packages are not included in CCGT plants.

[7] Emissions estimates are shown for steady state operation at ISO conditions. Estimates account for the impacts of SCR and CO catalysts.

1x1 GE 7HA.02 Dual Fuel with SCR, Capital Costs									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
ESTIMATED CAPITAL AND O&M COSTS		<u> </u>	T						
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)									
Labor	\$201,090,000	\$205,790,000	\$212,550,000	\$228,470,000	\$259,440,000	\$257,190,000			
Materials	\$117,720,000	\$120,470,000	\$124,420,000	\$133,750,000	\$151,870,000	\$150,560,000			
Turbines or Batteries	\$94,240,000	\$96,440,000	\$99,610,000	\$107,070,000	\$121,580,000	\$120,530,000			
Other	\$123,960,000	\$126,860,000	\$131,030,000	\$140,850,000	\$159,940,000	\$158,550,000			
EPC Project Capital Cost Subtotal, 2020\$	\$537,010,000	\$549,560,000	\$567,610,000	\$610,140,000	\$692,830,000	\$686,830,000			
Owner's Cost Allowances. 2020\$					l				
Owner's Project Development	\$3,500,000	\$3,500,000	\$3,500,000	\$3.500,000	\$4,550,000	\$3,850,000			
Owner's Operational Personnel Prior to COD	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$3,120,000	\$2,640,000			
Owner's Engineer	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$3,380,000	\$2,860,000			
Owner's Project Management	\$4,800,000	\$4.800,000	\$4.800,000	\$4.800,000	\$6.240,000	\$5.280,000			
Owner's Legal Costs	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,300,000	\$1,100,000			
Owner's Start-up Engineering and Commissioning	\$540,000	\$540,000	\$540,000	\$540,000	\$700,000	\$590,000			
Sales Tax	\$0	\$0	\$0	\$0	\$0	\$0			
Construction Power and Water	\$1,540,000	\$1,540,000	\$1,540,000	\$1,540,000	\$2,000,000	\$1,690,000			
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,300,000	\$1,100,000			
Switchyard	\$18,940,000	\$18,940,000	\$18,940,000	\$18,940,000	\$61,590,000	\$18,940,000			
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000			
Gas Interconnection and Reinforcement	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000			
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0	\$0	\$0			
Emission Reduction Credits	\$200,000	\$200,000	\$200,000	\$1,100,000	\$1,100,000	\$1,100,000			
Political Concessions & Area Development	\$500,000	\$500,000	\$500,000	\$500,000	\$650,000	\$550,000			
Startup/Testing (Fuel & Consumables)	\$5,450,000	\$5,450,000	\$5,450,000	\$5,450,000	\$5,450,000	\$5,450,000			
Initial Fuel Inventory	\$7,240,000	\$7,240,000	\$7,240,000	\$7,240,000	\$7,240,000	\$7,240,000			
Site Security	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,430,000	\$1,210,000			
Operating Spare Parts	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000			
Builders Risk Insurance (0.45% of Construction Costs)	\$2.420,000	\$2.470.000	\$2.550.000	\$2.750.000	\$3.120.000	\$3.090.000			
Owner's Contingency (5% for Screening Purposes)	\$31,280,000	\$31,910,000	\$32.820,000	\$35.000,000	\$41.570,000	\$38,950,000			
Owner's Cost Allowance Subtotal, 2020\$	\$119,910,000	\$120,590,000	\$121,580,000	\$124,860,000	\$180,140,000	\$131,040,000			
					l				
FPC Portion	\$37 590 700	\$38 469 200	\$39 732 700	\$42 709 800	\$48 498 100	\$48 078 100			
Non-FPC Portion	\$8 393 700	\$8 441 300	\$8,510,600	\$8 740 200	\$12 609 800	\$9 172 800			
AFUDC Subtotal, 2020\$	\$45,984,400	\$46,910,500	\$48,243,300	\$51,450,000	\$61,107,900	\$57,250,900			
Total Project Costs, 2020\$	\$702,904,400	\$717,060,500	\$737,433,300	\$786,450,000	\$934,077,900	\$875,120,900			
Notes:	cal scope ends at the high side	e of the GSU_CCGT unit in				<u> </u>			
[[1] Ouplial bost assumes El O fail whap methodology. El O elebaite	sai soope ends at the high side		olddes ddol ming oapability	•					

[2] Capital costs are presented in 2020 USD \$. [3] Estimated costs exclude decommissioning costs and salvage values.

1x1 GE 7HA.02 Dual Fuel with SCR, O&M Costs								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
EIXED O&M COSTS 2020\$/Yr								
Fixed O&M Cost - Labor	\$2 828 571	\$3 142 857	\$4 085 714	\$4 085 714	\$5,342,857	\$4 714 286		
Fixed O&M Cost - Other	\$2 140 000	\$2 140 000	\$2 140 000	\$2 140 000	\$2 140 000	\$2 140 000		
Site Leasing Allowance	\$660,000	\$660,000	\$660,000	\$660,000	\$8 100 000	\$780,000		
Total Fixed O&M Cost 2020\$/Yr	\$5 628 571	\$5 942 857	\$6 885 714	\$6 885 714	\$15 582 857	\$7 634 286		
Total Fixed O&M Cost 2020\$/kW - Yr	\$11.37	\$11.92	\$13.75	\$13.75	\$31.03	\$15.19		
LEVELIZED MAJOR MAINTENANCE COSTS								
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$600	\$600	\$600	\$600	\$600	\$600		
Major Maintenance Cost, 2020\$/GT-start	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200		
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAI	 NTENANCE) - GAS OPERAT	 ON, 2020\$/MWh						
Water Related O&M	\$0.01	\$0.01	\$0.01	\$0.01	\$0.03	\$0.01		
SCR Related Costs	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32		
Other Consumables and Variable O&M	\$1.22	\$1.22	\$1.22	\$1.22	\$1.22	\$1.21		
Total Variable O&M - Gas Operation, 2020\$/MWh	\$1.55	\$1.55	\$1.55	\$1.55	\$1.57	\$1.54		
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAI	I NTENANCE) - FUEL OIL OPE	I ERATION, 2020\$/MWh						
Water Related O&M	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40	\$0.03		
SCR Related Costs	\$0.50	\$0.50	\$0.50	\$0.50	\$0.46	\$0.48		
Other Consumables and Variable O&M	\$1.20	\$1.20	\$1.20	\$1.20	\$1.23	\$1.22		
Total Variable O&M - Fuel Oil Operation, 2020\$/MWh	\$1.70	\$1.70	\$1.70	\$1.70	\$2.09	\$1.73		
Notes:								
[1] Variable O&M costs are based on performance at annual aver	age conditions.							
[2] Fixed O&M costs are presented in 2020 USD \$.								
[3] Fixed O&M assumes 22 FTE for a 1x1 configuration.								
[[4] Variable O&M costs assume onsite demineralized water treatment	<u>nent system (included in EPC o</u>	cost).						

	1x1 GE 7HA.02 Gas Only with SCR, Performance								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
BASE PLANT DESCRIPTION									
Number of Gas Turbines	1	1	1	1					
Number of Steam Turbines	1	1	1	1					
Representative Class Gas Turbine	GE 7HA.02	GE 7HA.02	GE 7HA.02	GE 7HA.02					
Steam Conditions (Main Steam / Reheat)	1,085°F / 1,085°F	1,085°F / 1,085°F	1,085°F / 1,085°F	1,085°F / 1,085°F					
Main Steam Pressure	2,330	2,330	2,330	2,330					
Steam Cycle Type	Subcritical	Subcritical	Subcritical	Subcritical					
Startup Time, Minutes (Cold Start to Unfired Base Load)	180	180	180	180					
Startup Time, Minutes (Warm Start to Unfired Base Load)	120	120	120	120					
Startup Time, Minutes (Hot Start to Unfired Base Load)	80	80	80	80					
Startup Time, Minutes (Cold Start to Stack Emissions Compliance)	60	60	60	60					
Equivalent Forced Outage Rate Demand, %	3%	3%	3%	3%					
Assumed Land Use During Operation, Acres	30	30	30	30					
Fuel Design	Natural Gas Only	Natural Gas Only	Natural Gas Only	Natural Gas Only					
Inlet Conditioning	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler	Evaporative Cooler					
Heat Rejection	Air Cooled Condenser	Air Cooled Condenser	Air Cooled Condenser	Air Cooled Condenser					
	(ACC)	(ACC)	(ACC)	(ACC)					
NO _x Control	DLN/SCR	DLN/SCR	DLN/SCR	DLN/SCR					
CO Control	Oxidation Catalyst	Oxidation Catalyst	Oxidation Catalyst	Oxidation Catalyst					
Particulate Control	Good Combustion	Good Combustion	Good Combustion	Good Combustion					
	Practice	Practice	Practice	Practice					
Interconnection Voltage, kV	345	345	345	345					
Technology Rating	Mature	Mature	Mature	Mature					
Permitting & Construction Schedule (Years from FNTP)	4	4	4	4					

	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED PERFORMANCE						
Net Plant Capacity - Base Load, kW						
Net Plant Output - Summer Performance	509,900	513,300	514,700	514,700		
Net Plant Output - Winter Performance	539,200	542,100	544,800	544,800		
DMNC Summer	486,000	488,300	486,500	486,500		
DMNC Winter	530,000	532,500	536,300	536,300		
DMNC ICAP	495,100	498,500	500,600	500,600		
Net Plant Heat Rate (HHV Basis) - Base Load, Btu/kWh						
Net Plant Heat Rate - Summer	6,370	6,360	6,360	6,360		
Net Plant Heat Rate - Winter	6,360	6,360	6,350	6,350		
Net Plant Heat Rate - DMNC Summer	6,410	6,410	6,410	6,410		
Net Plant Heat Rate - DMNC Winter	6,390	6,390	6,390	6,390		
Net Plant Heat Rate - DMNC ICAP	6,410	6,400	6,400	6,400		
Net Plant Capacity - Single Turbine at MECL, kW						
Net Plant Output - Summer Performance	232,100	233,400	234,000	234,000		
Net Plant Output - Winter Performance	197,000	198,000	198,700	198,700		
DMNC Summer	216,900	218,300	217,400	217,400		
DMNC Winter	196,100	197,100	198,400	198,400		
DMNC ICAP	221,500	223,400	224,400	224,400		
Net Plant Heat Rate (HHV Basis) - Single Turbine at MECL, Btu/kWh						
Net Plant Heat Rate - Summer	7.130	7.130	7.130	7.130		
Net Plant Heat Rate - Winter	7,570	7,560	7,550	7,550		
Net Plant Heat Rate - DMNC Summer	7.370	7.350	7.370	7,370		
Net Plant Heat Rate - DMNC Winter	7,650	7.650	7,630	7,630		
Net Plant Heat Rate - DMNC ICAP	7,340	7,320	7,320	7,320		
Estimated Startup Fuel Usage, MMBtu						
Start to Unfired Base Load (Warm Start)	3,940	3,940	3,940	3,940		

1x1 GE 7HA.02 Gas Only with SCR, Emissions								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
ESTIMATED BASE LOAD OPERATING EMISSIONS: NATURAL GAS								
All GTs with SCR and CO Catalyst (lb/hr, HHV) NO _x SO ₂ CO CO ₂	26 6.6 16 393,600	26 6.7 16 403,200	26 6.7 16 404,400	26 6.7 16 404,400				

[1] Performance ratings were determined using heat balance modeling software. Performance is based on 1.8% average degradation for capacity and 1.1% average degradation for heat rate. All performance is based on NATURAL GAS operation. Min load ratings are based on OEM performance information at specified ambient conditions.

[2] The duct firing incremental values note incremental performance output. The incremental heat rate reflects the effective heat rate of the additional output due to the duct burners.

[3] Startup time to stack emissions compliance is not the same as the start time for gas turbine MECL. Stack emissions compliance is expected to be limited by the temperature of the CO catalyst, which impacts VOC emissions.

[4] Outage and availability statistics are collected using the NERC Generating Availability Data System. Combined cycle data is based on North American units that came online in 2010 or later. Reporting period is 2012-2019.

[5] Cold start is >72 hours after shutdown. Hot start is <8 hours after shutdown.

[6] Startup times reflect unrestricted, conventional starts for all gas turbines. These start times assume the inclusion of terminal point desuperheaters, full bypass, and associated controls. Fast start packages are not included in CCGT plants.

[7] Emissions estimates are shown for steady state operation at ISO conditions. Estimates account for the impacts of SCR and CO catalysts.

1x1 GE 7HA.02 Gas Only with SCR, Capital Costs						
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED CAPITAL AND O&M COSTS						
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)						
Labor	\$191,580,000	\$196,280,000	\$203,040,000	\$218,960,000		
Materials	\$112,150,000	\$114,900,000	\$118,860,000	\$128,180,000		
Turbines or Batteries	\$89,780,000	\$91,980,000	\$95,150,000	\$102,620,000		
Other	\$118,100,000	\$121,000,000	\$125,160,000	\$134,980,000		
EPC Project Capital Cost Subtotal, 2020\$	\$511,610,000	\$524,160,000	\$542,210,000	\$584,740,000		
Owner's Cost Allowances. 2020\$						
Owner's Project Development	\$3,500,000	\$3.500.000	\$3.500.000	\$3.500.000		
Owner's Operational Personnel Prior to COD	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000		
Owner's Engineer	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000		
Owner's Project Management	\$4,800,000	\$4,800,000	\$4,800,000	\$4,800,000		
Owner's Legal Costs	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000		
Owner's Start-up Engineering and Commissioning	\$540,000	\$540,000	\$540,000	\$540,000		
Sales Tax	\$0	\$0	\$0	\$0		
Construction Power and Water	\$1,540,000	\$1,540,000	\$1,540,000	\$1,540,000		
Permitting and Licensing Fees	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000		
Switchyard	\$18,940,000	\$18,940,000	\$18,940,000	\$18,940,000		
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000		
Gas Interconnection and Reinforcement	\$17,900,000	\$17,900,000	\$17,900,000	\$17,900,000		
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0		
Emission Reduction Credits	\$200,000	\$200,000	\$200,000	\$1,100,000		
Political Concessions & Area Development Fees	\$500,000	\$500,000	\$500,000	\$500,000		
Startup/Testing (Fuel & Consumables)	\$5,450,000	\$5,450,000	\$5,450,000	\$5,450,000		
Initial Fuel Inventory	\$0	\$0	\$0	\$0		
Site Security	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000		
Operating Spare Parts	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000		
Builders Risk Insurance (0.45% of Construction Costs)	\$2,302,245	\$2,358,720	\$2,439,945	\$2,631,330		
Owner's Contingency (5% for Screening Purposes)	\$30,010,000	\$30,640,000	\$31,550,000	\$33,730,000		
Owner's Cost Allowance Subtotal, 2020\$	\$111,282,245	\$111,968,720	\$112,959,945	\$116,231,330		
AFUDC, 2020\$						
EPC Portion	\$37,590,700	\$38,469,200	\$39,732,700	\$42,709,800		
Non-EPC Portion	\$8,393,700	\$8,441,300	\$8,510,600	\$8,740,200		
AFUDC Subtotal, 2020\$	\$45,984,400	\$46,910,500	\$48,243,300	\$51,450,000		
Cost Reconciliation to Match Demand Curve Model	\$4,827,755	\$4,721,280	\$4,720,055	\$4,528,670		
Total Project Costs, 2020\$	\$673,704,400	\$687,760,500	\$708,133,300	\$756,950,000		
Notes						

NOTES:

[1] Capital cost assumes EPC full wrap methodology. EPC electrical scope ends at the high side of the GSU. Assumes gas, water, sewer, communications are available at plant fenceline. CCGT unit includes duct firing capability.

[2] Capital costs are presented in 2020 USD \$.[3] Estimated costs exclude decommissioning costs and salvage values.

1x1 GE 7HA.02 Gas Only with SCR, O&M Costs								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
FIXED U&M CUSTS, 2020\$/YF								
Fixed O&M Cost - Labor	\$2,828,571	\$3,142,857	\$4,085,714	\$4,085,714				
Fixed O&M Cost - Other	\$2,140,000	\$2,140,000	\$2,140,000	\$2,140,000				
Site Leasing Allowance	\$660,000	\$660,000	\$660,000	\$660,000				
Total Fixed O&M Cost 2020\$/Yr	\$5,628,571	\$5,942,857	\$6,885,714	\$6,885,714				
Total Fixed O&M Cost 2020\$/kW - Yr	\$11.37	\$11.92	\$13.75	\$13.75				
LEVELIZED MAJOR MAINTENANCE COSTS								
Major Maintenance Cost, 2020\$/GT-hr or \$/engine-hr	\$600	\$600	\$600	\$600				
Major Maintenance Cost, 2020\$/GT-start	\$16,200	\$16,200	\$16,200	\$16,200				
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTENA	 NCE) - GAS OPERATION,	2020\$/MWh						
Water Related O&M	\$0.01	\$0.01	\$0.01	\$0.01				
SCR Related Costs	\$0.32	\$0.32	\$0.32	\$0.32				
Other Consumables and Variable O&M	\$1.22	\$1.22	\$1.22	\$1.22				
Total Variable O&M - Gas Operation, 2020\$/MWh	\$1.55	\$1.55	\$1.55	\$1.55				
Notes:								
[1] Variable O&M costs are based on performance at annual average cor	nditions.							
[2] Fixed O&M costs are presented in 2020 USD \$.								
[3] Fixed O&M assumes 22 FTE for a 1x1 configuration.								
[4] Variable O&M costs assume onsite demineralized water treatment sys	stem (included in EPC cost).						

BESS 4h Battery, Performance								
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island		
BASE PLANT DESCRIPTION								
Nominal Output, MW	200	200	200	200	200	200		
Nominal Duration, hr	4	4	4	4	4	4		
Assumed Useful Life (years)	20	20	20	20	20	20		
Equivalent Planned Outage Rate (%)	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%		
Equivalent Forced Outage Rate (%)	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%		
Equivalent Availability Factor (%)	97%	97%	97%	97%	97%	97%		
Assumed Land Use During Operation, Acres	9	9	9	9	9	9		
Heat Rejection	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC		
Annual System Cycles	350	350	350	350	350	350		
Storage System Initial Overbuild (%)	16.5%	16.5%	16.5%	16.5%	16.5%	16.5%		
Storage System Degradation (%/vr)	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%		
Storage System AC Roundtrip Efficiency (%)	85%	85%	85%	85%	85%	85%		
Interconnection Voltage, kV	345	345	345	345	345	138		
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature		
Permitting & Construction Schedule (Years from FNTP)	2	2	2	2	2	2		
ESTIMATED PERFORMANCE								
Net Plant Capacity, kW								
Net Plant Output - Summer Performance	200,000	200,000	200,000	200,000	200,000	200,000		
Net Plant Output - Winter Performance	200,000	200,000	200,000	200,000	200,000	200,000		
DMNC Summer	200,000	200,000	200,000	200,000	200,000	200,000		
DMNC Winter	200,000	200,000	200,000	200,000	200,000	200,000		
DMNC ICAP	200,000	200,000	200,000	200,000	200,000	200,000		
Output Duration brs								
Output Duration - Summer	4	Δ	4	4	Δ	Δ		
Output Duration - Winter	4	4		4		4		
Output Duration - DMNC Summer	4	4	4	4	4	4		
Output Duration - DMNC Winter	4	4	4	4	4	4		
Output Duration - DMNC ICAP	4	4	4	4	4	4		
Net Plant Energy Capacity, kWh								
Net Plant Energy Capacity - Summer	800,000	800,000	800,000	800,000	800,000	800,000		
Net Plant Energy Capacity - Winter	800,000	800,000	800,000	800,000	800,000	800,000		
Net Plant Energy Capacity - DMNC Summer	800,000	800,000	800,000	800,000	800,000	800,000		
Net Plant Energy Capacity - DMNC Winter	800,000	800,000	800,000	800,000	800,000	800,000		
Net Plant Energy Capacity - DMNC ICAP	800,000	800,000	800,000	800,000	800,000	800,000		
Notes:								

[1] NERC GADS performance statistics are not available for battery storage technologies. Availability and outage rate assumptions are based on vendor correspondence and industry publications.

		BESS 4h Battery, Cap	ital Costs			
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED CAPITAL AND O&M COSTS						
FPC Project Capital Costs 2020\$ (w/o Owner's Costs)						
Labor	\$36,970,000	\$37 330 000	\$37 670 000	\$39,120,000	\$41.450.000	\$41 180 000
Materials	\$30,970,000	\$37,550,000	\$37,070,000	\$43,520,000	\$46 100 000	\$45,800,000
Turbines or Batteries	\$133 040 000	\$134 330 000	\$135,550,000	\$140,780,000	\$1/0 1/0 000	\$148,180,000
Other	\$133,040,000	\$134,330,000	\$135,550,000	\$140,780,000	¢149,140,000 ¢14 100 000	\$140,100,000
EPC Project Capital Cost Subtotal, 2020\$	\$250,840,000	\$40,090,000	\$40,440,000	\$265,420,000	\$281,180,000	\$279,380,000
Owner's Cast Allowerses 2020f						
Owner's Cost Allowances, 20205	¢170.000	¢170.000	¢170.000	¢170.000	¢000.000	¢100.000
Owner's Project Development	\$170,000	\$170,000	\$170,000	\$170,000	\$220,000	\$190,000
Owner's Operational Personnel Prior to COD	\$110,000	\$110,000	\$110,000	\$110,000	\$140,000	\$120,000
Owner's Engineer	\$190,000	\$190,000	\$190,000	\$190,000	\$250,000	\$210,000
	\$350,000	\$350,000	\$350,000	\$350,000	\$460,000	\$390,000
Owner's Legal Costs	\$500,000	\$500,000	\$500,000	\$500,000	\$650,000	\$550,000
Owner's Start-up Engineering and Commissioning	\$70,000	\$70,000	\$70,000	\$70,000	\$90,000	\$80,000
Sales I ax	\$0	\$0	\$0	\$0	\$0	\$0
Construction Power and Water	\$450,000	\$450,000	\$450,000	\$450,000	\$590,000	\$500,000
Permitting and Licensing Fees	\$250,000	\$250,000	\$250,000	\$250,000	\$330,000	\$280,000
Switchyard	\$10,250,000	\$10,250,000	\$10,250,000	\$10,250,000	\$50,750,000	\$5,590,000
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$13,010,000	\$6,500,000
Gas Interconnection and Reinforcement	\$0	\$0	\$0	\$0	\$0	\$0
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0	\$0	\$0
Emission Reduction Credits	\$0	\$0	\$0	\$0	\$0	\$0
Political Concessions & Area Development	\$100,000	\$100,000	\$100,000	\$100,000	\$130,000	\$110,000
Startup/Testing (Fuel & Consumables)	\$0	\$0	\$0	\$0	\$0	\$0
Initial Fuel Inventory	\$0	\$0	\$0	\$0	\$0	\$0
Site Security	\$370,000	\$370,000	\$370,000	\$370,000	\$480,000	\$410,000
Operating Spare Parts	\$770,000	\$770,000	\$770,000	\$770,000	\$770,000	\$770,000
Builders Risk Insurance (0.45% of Construction Costs)	\$1,130,000	\$1,140,000	\$1,150,000	\$1,190,000	\$1,270,000	\$1,260,000
Owner's Contingency (5% for Screening Purposes)	\$13,830,000	\$13,950,000	\$14,060,000	\$14,560,000	\$17,520,000	\$14,820,000
Owner's Cost Allowance Subtotal, 2020\$	\$39,540,000	\$39,670,000	\$39,790,000	\$40,330,000	\$86,660,000	\$31,780,000
AFUDC, 2020\$						
EPC Portion	\$17.558.800	\$17.728.900	\$17.889.200	\$18.579.400	\$19.682.600	\$19,556,600
Non-EPC Portion	\$2.767.800	\$2.776.900	\$2.785.300	\$2.823.100	\$6.066.200	\$2.224.600
AFUDC Subtotal, 2020\$	\$20,326,600	\$20,505,800	\$20,674,500	\$21,402,500	\$25,748,800	\$21,781,200
Total Project Costs, 2020\$	\$310,706,600	\$313,445,800	\$316,024,500	\$327,152,500	\$393,588,800	\$332,941,200
Notes:						
[1] Capital cost assumes EPC full wrap methodology. EPC electri	cal scope ends at the high sid	le of the GSU. Assumes u	tilities are available at plant	fenceline.		
[2] EPC cost includes initial overbuild to account for stystem losse	es, minimum state of charge.	auxiliaries, and first vear o	f assumed degradation.			
[3] Estimated Costs exclude decommisioning costs and salvage	values.	, , ,	5			

BESS 4h Battery, O&M Costs									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
FIXED O&M COSTS, 2020\$/Yr									
Fixed O&M Cost - Assumes LTSA with Integrator/OEM	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000			
Site Leasing Allowance	\$200,000	\$200,000	\$200,000	\$200,000	\$2,430,000	\$230,000			
Total Fixed O&M Cost 2020\$/Yr	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$3,430,000	\$1,230,000			
Total Fixed O&M Cost 2020\$/kW - Yr	\$6.00	\$6.00	\$6.00	\$6.00	\$17.15	\$6.15			
I NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTE	ا NANCE) - BATTERY OPE	RATION, 2020\$/MWh							
Capacity Augmentation (via LTSA) Levelized	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00			
Total Variable Variable O&M - Battery Operation, 2020\$/MWh	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00			
Notes:									
[1] Battery FOM accounts for routine system maintenance and assum	es the site is remotely conf	trolled.							

[2] Variable O&M is modeled to account for augmentation for assumed capacity requirement (costs are levelized).

BESS 6h Battery, Performance							
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island	
BASE PLANT DESCRIPTION							
Nominal Output, MW	200	200	200	200	200	200	
Nominal Duration, hr	6	6	6	6	6	6	
Assumed Useful Life (years)	20	20	20	20	20	20	
Equivalent Planned Outage Rate (%)	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%	
Equivalent Forced Outage Rate (%)	< 3%	< 3%	< 3%	< 3%	< 3%	< 3%	
Equivalent Availability Factor (%)	97%	97%	97%	97%	97%	97%	
Assumed Land Use During Operation, Acres	12	12	12	12	12	12	
Heat Rejection	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC	Air-cooled HVAC	
Annual System Cycles	350	350	350	350	350	350	
Storage System Initial Overbuild (%)	16.5%	16.5%	16.5%	16.5%	16.5%	16.5%	
Storage System Degradation (%/yr)	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	
Storage System AC Roundtrip Efficiency (%)	85%	85%	85%	85%	85%	85%	
Interconnection Voltage, kV	345	345	345	345	345	138	
Technology Rating	Mature	Mature	Mature	Mature	Mature	Mature	
Permitting & Construction Schedule (Years from FNTP)	2	2	2	2	2	2	
ESTIMATED PERFORMANCE							
Net Plant Capacity, kW							
Net Plant Output - Summer Performance	200,000	200,000	200,000	200,000	200,000	200,000	
Net Plant Output - Winter Performance	200,000	200,000	200,000	200,000	200,000	200,000	
DMNC Summer	200,000	200,000	200,000	200,000	200,000	200,000	
DMNC Winter	200,000	200,000	200,000	200,000	200,000	200,000	
DMNC ICAP	200,000	200,000	200,000	200,000	200,000	200,000	
Output Duration brs							
Output Duration - Summer	6	6	6	6	6	6	
Output Duration - Winter	6	6	6	6	6	6	
Output Duration - DMNC Summer	6	6	6	6	6	6	
Output Duration - DMNC Winter	6	6	6	6	6	6	
Output Duration - DMNC ICAP	6	6	6	6	6	6	
Net Plant Energy Capacity, kwn	1 000 000	1 000 000	1 000 000	1 000 000	1 000 000	1 000 000	
Net Plant Energy Capacity - Summer	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	
Net Plant Energy Capacity - Winter	1,200,000		1,200,000	1,200,000		1,200,000	
Net Plant Energy Capacity - DMNC Summer	1,200,000		1,200,000	1,200,000		1,200,000	
Net Plant Energy Capacity - DMNC WINter	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	
Net Plant Energy Capacity - DMINC ICAP	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	
NOTES:							

[1] NERC GADS performance statistics are not available for battery storage technologies. Availability and outage rate assumptions are based on vendor correspondence and industry publications.

		BESS 6h Battery, Cap	tal Costs			
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED CAPITAL AND O&M COSTS						
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)						
Labor	\$53,200,000	\$53,720,000	\$54,190,000	\$56,300,000	\$59,650,000	\$59,290,000
Materials	\$50,650,000	\$51,140,000	\$51,600,000	\$53,610,000	\$56,790,000	\$56,450,000
Turbines or Batteries	\$199,530,000	\$201,480,000	\$203,280,000	\$211,190,000	\$223,730,000	\$222,390,000
Other	\$55,480,000	\$56,030,000	\$56,530,000	\$58,730,000	\$62,210,000	\$61,850,000
EPC Project Capital Cost Subtotal, 2020\$	\$358,860,000	\$362,370,000	\$365,600,000	\$379,830,000	\$402,380,000	\$399,980,000
Owner's Cost Allowances, 2020\$						
Owner's Project Development	\$170,000	\$170,000	\$170,000	\$170,000	\$220,000	\$190,000
Owner's Operational Personnel Prior to COD	\$110,000	\$110,000	\$110,000	\$110,000	\$140,000	\$120,000
Owner's Engineer	\$230,000	\$230,000	\$230,000	\$230,000	\$300,000	\$250,000
Owner's Project Management	\$410,000	\$410,000	\$410,000	\$410,000	\$530,000	\$450,000
Owner's Legal Costs	\$500,000	\$500,000	\$500,000	\$500,000	\$650,000	\$550,000
Owner's Start-up Engineering and Commissioning	\$140,000	\$140,000	\$140,000	\$140,000	\$180,000	\$150,000
Sales Tax	\$0	\$0	\$0	\$0	\$0	\$0
Construction Power and Water	\$510,000	\$510,000	\$510,000	\$510,000	\$660,000	\$560,000
Permitting and Licensing Fees	\$250,000	\$250,000	\$250,000	\$250,000	\$330,000	\$280,000
Switchvard	\$10,250,000	\$10,250,000	\$10,250,000	\$10,250,000	\$50,750,000	\$5,590,000
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$13,010,000	\$6,500,000
Gas Interconnection and Reinforcement	\$0	\$0	\$0	\$0	\$0	\$0
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0
Emission Reduction Credits	\$0 \$0	\$0	\$0	\$0	\$0 \$0	\$0
Political Concessions & Area Development	\$100,000	\$100,000	\$100,000	\$100,000	\$130,000	\$110,000
Startup/Testing (Fuel & Consumables)	\$0	\$0	\$0	\$0	\$0	\$0
Initial Fuel Inventory	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0
Site Security	\$440,000	\$440,000	\$440,000	\$440,000	\$570,000	\$480,000
Operating Spare Parts	\$1 120 000	\$1 120 000	\$1 120 000	\$1 120 000	\$1 120 000	\$1 120 000
	ψ1,120,000	ψ1,120,000	ψ1,120,000	ψ1,120,000	ψ1,120,000	ψ1,120,000
Builders Risk Insurance (0.45% of Construction Costs)	\$1,610,000	\$1,630,000	\$1,650,000	\$1,710,000	\$1,810,000	\$1,800,000
Owner's Contingency (5% for Screening Purposes)	\$19,290,000	\$19,460,000	\$19,620,000	\$20,340,000	\$23,640,000	\$20,910,000
Owner's Cost Allowance Subtotal, 2020\$	\$46,130,000	\$46,320,000	\$46,500,000	\$47,280,000	\$94,040,000	\$39,060,000
AFUDC. 2020\$						
FPC Portion	\$25 120 200	\$25 365 900	\$25 592 000	\$26 588 100	\$28 166 600	\$27 998 600
Non-FPC Portion	\$3 229 100	\$3 242 400	\$3 255 000	\$3,309,600	\$6 582 800	\$2 734 200
AFUDC Subtotal, 2020\$	\$28,349,300	\$28,608,300	\$28,847,000	\$29,897,700	\$34,749,400	\$30,732,800
Total Broject Costs 2020\$	\$433 330 300	\$437 298 300	\$440.947.000	\$ <i>4</i> 57.007.700	\$531 169 400	\$469 772 800
Notoe	ψ+33,333,300	ψ η 31,230,300	ψ +1 0,347,000	ψ 1 01,001,100	ΨJJ1,1UJ,4UU	μ φ+03,//2,000
[11 Capital cost accuman EDC full wron methodology. EDC cleater	al acono ando at the high aid	a of the COLL Assumes w	ilition are evoluble at plant	fanaalina		
[1] Capital cost assumes EPC full wrap methodology. EPC electric	a minimum state of shores	e of the GOU. Assumes u	inues are available at plant	iencellne.		
[2] EPU COST INCIDES INITIAL OVERDUID TO ACCOUNT FOR STYSTEM IOSSE	s, minimum state of charge, a	auxiliaries, and first year of	assumed degradation.			
[[5] Esumated Costs exclude decommisioning costs and salvage v	alues.					

BESS 6h Battery, O&M Costs									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
FIXED O&M COSTS, 2020\$/Yr Fixed O&M Cost - Assumes LTSA with Integrator/OEM Site Leasing Allowance Total Fixed O&M Cost 2020\$/Yr Total Fixed O&M Cost 2020\$/kW - Yr	\$1,240,000 \$260,000 \$1,500,000 \$7.50	\$1,240,000 \$260,000 \$1,500,000 \$7.50	\$1,240,000 \$260,000 \$1,500,000 \$7.50	\$1,240,000 \$260,000 \$1,500,000 \$7.50	\$1,240,000 \$3,240,000 \$4,480,000 \$22.40	\$1,240,000 \$310,000 \$1,550,000 \$7.75			
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTE Capacity Augmentation (via LTSA) Levelized	\$12.00	\$12.00	\$12.00	\$12.00					
Total Variable Variable O&M - Battery Operation, 2020\$/MWh	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00			
Notes: [1] Battery FOM accounts for routine system maintenance and assum	es the site is remotely cont	rolled.							

[2] Variable O&M is modeled to account for augmentation for assumed capacity requirement (costs are levelized).

ZONE C - Central ZONE F - Capital ZONE G - Dutchess ZONE G - Rockland ZONE J - NYC ZONE K - Long BASE PLANT DESCRIPTION) Island
BASE PLANT DESCRIPTION	
Nominal Output, MW 200	
Nominal Duration, hr 8 8 8 8 8	
Assumed Useful Life (years) 20 20 20 20 20 20 20	
Equivalent Planned Outage Rate (%) < 3% < 3% < 3% < 3% < 3%	
Equivalent Forced Outage Rate (%) < 3% < 3% < 3% < 3%	
Equivalent Availability Factor (%) 97% 97% 97% 97% 97%	
Assumed Land Use During Operation, Acres 15 15 15 15 15	
Heat Rejection Air-cooled HVAC	IVAC
Annual System Cycles 350 350 350 350 350	
Storage System Initial Overbuild (%) 16.5% 16.5% 16.5% 16.5%	
Storage System Degradation (%/vr) 2.00% 2.00% 2.00% 2.00%	
Storage System AC Roundtrip Efficiency (%) 85% 85% 85% 85% 85%	
Interconnection Voltage, kV 345 345 138	
Technology Rating Mature Mature Mature Mature Mature Mature	
Permitting & Construction Schedule (Years from FNTP) 2 2 2 2 2 2 2 2 2	
Net Plant Capacity, kW	
Net Plant Output - Summer Performance 200.000 200.000 200.000 200.000 200.000 200.000)
Net Plant Output - Winter Performance 200,000 200,000 200,000 200,000 200,000)
DMNC Summer 200,000 200,000 200,000 200,000 200,000 200,000 200,000)
DMNC Winter 200,000 200,000 200,000 200,000 200,000 200,000	נ
DMNC ICAP 200,000 200,000 200,000 200,000 200,000 200,000)
Output Duration, hrs	
Output Duration - Summer 8 <td></td>	
Output Duration - Winter 8 <td></td>	
Output Duration - DMNC Summer 8	
Output Duration - DMNC Winter 8 8 8 8 8	
Output Duration - DMNC ICAP88888	
Net Plant Energy Canacity, kWh	
Net Plant Energy Capacity - Summer 1600,000 1600,000 1600,000 1600,000 1600,000 1600,000 1600,000 1600,000	0
Net Plant Energy Capacity - Winter 1,000,000 1 600,000000 1 600,000000 1 600,0000000000	0
Net Plant Energy Capacity - DMNC Summer 1,000,000 1600,0000000000	i0
Net Plant Energy Capacity - DMNC Winter 1,600,000 1 600 000 0	JO O
Net Plant Energy Capacity - DMNC ICAP 1,600,0000 1,0000000000	0
Notes:	

[1] NERC GADS performance statistics are not available for battery storage technologies. Availability and outage rate assumptions are based on vendor correspondence and industry publications.

		BESS 8h Battery, Capi	tal Costs			
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island
ESTIMATED CAPITAL AND O&M COSTS						
EPC Project Capital Costs, 2020\$ (w/o Owner's Costs)						
Labor	\$69,390,000	\$70,080,000	\$70,700,000	\$73,460,000	\$77,820,000	\$77,370,000
Materials	\$60,140,000	\$60,740,000	\$61,280,000	\$63,670,000	\$67,450,000	\$67,060,000
Turbines or Batteries	\$266,010,000	\$268,640,000	\$271,010,000	\$281,610,000	\$298,320,000	\$296,610,000
Other	\$71,270,000	\$71,960,000	\$72,600,000	\$75,450,000	\$79,920,000	\$79,470,000
EPC Project Capital Cost Subtotal, 2020\$	\$466,810,000	\$471,420,000	\$475,590,000	\$494,190,000	\$523,510,000	\$520,510,000
Owner's Cost Allowances, 2020\$						
Owner's Project Development	\$170,000	\$170,000	\$170,000	\$170,000	\$220,000	\$190,000
Owner's Operational Personnel Prior to COD	\$110,000	\$110,000	\$110,000	\$110,000	\$140,000	\$120,000
Owner's Engineer	\$260,000	\$260,000	\$260,000	\$260,000	\$340,000	\$290,000
Owner's Project Management	\$480,000	\$480,000	\$480,000	\$480,000	\$620,000	\$530,000
Owner's Legal Costs	\$500,000	\$500,000	\$500,000	\$500,000	\$650,000	\$550,000
Owner's Start-up Engineering and Commissioning	\$180,000	\$180,000	\$180,000	\$180,000	\$230,000	\$200,000
Sales Tax	\$0	\$0	\$0	\$0	\$0	\$0
Construction Power and Water	\$550,000	\$550,000	\$550,000	\$550,000	\$720,000	\$610,000
Permitting and Licensing Fees	\$250,000	\$250,000	\$250,000	\$250,000	\$330,000	\$280,000
Switchyard	\$10,250,000	\$10,250,000	\$10,250,000	\$10,250,000	\$50,750,000	\$5,590,000
Electrical Interconnection and Deliverability	\$11,000,000	\$11,000,000	\$11,000,000	\$11,000,000	\$13,010,000	\$6,500,000
Gas Interconnection and Reinforcement	\$0	\$0	\$0	\$0	\$0	\$0
System Deliverability Upgrade Costs	\$0	\$0	\$0	\$0	\$0	\$0
Emission Reduction Credits	\$0	\$0	\$0	\$0	\$0	\$0
Political Concessions & Area Development	\$100,000	\$100,000	\$100,000	\$100,000	\$130,000	\$110,000
Startup/Testing (Fuel & Consumables)	\$0	\$0	\$0	\$0	\$0	\$0
Initial Fuel Inventory	\$0	\$0	\$0	\$0	\$0	\$0
Site Security	\$510,000	\$510,000	\$510,000	\$510,000	\$660,000	\$560,000
Operating Spare Parts	\$1,470,000	\$1,470,000	\$1,470,000	\$1,470,000	\$1,470,000	\$1,470,000
Builders Risk Insurance (0.45% of Construction Costs)	\$2,100,000	\$2,120,000	\$2,140,000	\$2,220,000	\$2,360,000	\$2,340,000
Owner's Contingency (5% for Screening Purposes)	\$24,740,000	\$24,970,000	\$25,180,000	\$26,110,000	\$29,760,000	\$26,990,000
Owner's Cost Allowance Subtotal, 2020\$	\$52,670,000	\$52,920,000	\$53,150,000	\$54,160,000	\$101,390,000	\$46,330,000
AFUDC, 2020\$						
EPC Portion	\$32,676,700	\$32,999,400	\$33,291,300	\$34,593,300	\$36,645,700	\$36,435,700
Non-EPC Portion	\$3,686,900	\$3,704,400	\$3,720,500	\$3,791,200	\$7,097,300	\$3,243,100
AFUDC Subtotal, 2020\$	\$36,363,600	\$36,703,800	\$37,011,800	\$38,384,500	\$43,743,000	\$39,678,800
Total Project Costs, 2020\$	\$555,843,600	\$561,043,800	\$565,751,800	\$586,734,500	\$668,643,000	\$606,518,800
Notes:						
[1] Capital cost assumes EPC full wrap methodology. EPC electric	cal scope ends at the high side	e of the GSU. Assumes ut	ilities are available at plant	fenceline.		

[2] EPC cost includes initial overbuild to account for stystem losses, minimum state of charge, auxiliaries, and first year of assumed degradation. [3] Estimated Costs exclude decommisioning costs and salvage values.

BESS 8h Battery, O&M Costs									
	ZONE C - Central	ZONE F - Capital	ZONE G - Dutchess	ZONE G - Rockland	ZONE J - NYC	ZONE K - Long Island			
FIXED O&M COSTS, 2020\$/Yr Fixed O&M Cost - Assumes LTSA with Integrator/OEM Site Leasing Allowance Total Fixed O&M Cost 2020\$/Yr Total Fixed O&M Cost 2020\$/kW - Yr	\$1,490,000 \$330,000 \$1,820,000 \$9.10	\$1,490,000 \$330,000 \$1,820,000 \$9.10	\$1,490,000 \$330,000 \$1,820,000 \$9.10	\$1,490,000 \$330,000 \$1,820,000 \$9.10	\$1,490,000 \$4,050,000 \$5,540,000 \$27.70	\$1,490,000 \$390,000 \$1,880,000 \$9.40			
NON-FUEL VARIABLE O&M COSTS (EXCLUDES MAJOR MAINTE Capacity Augmentation (via LTSA) Levelized	\$12.00	\$12.00	\$12.00	\$12.00					
Notes: 141 Detterm FOM eccentrate for multiple systems register and eccentrate	\$12.00	\$12.00	<u></u> \$12.00	\$12.00	\$12.00	\$12.00			
[1] Battery FOW accounts for routine system maintenance and assum	es the site is remotely cont	rollea.							

[2] Variable O&M is modeled to account for augmentation for assumed capacity requirement (costs are levelized).